| 1.                    |
|-----------------------|
| AYD, BVF, DRH, ?, KGL |
| (A)                   |
| FMI                   |
| (B)                   |
| GMJ                   |
| (C)                   |
| HLK                   |
| (D)                   |
| GLJ                   |
| Answer: (D)           |
| 2.                    |
| 42 40 38 35 33 31 28? |
| (A)                   |
| 25 22                 |

| (B)                              |
|----------------------------------|
| 26 23                            |
| (C)                              |
| 26 24                            |
| (D)                              |
| 25 23                            |
| Answer: (C)                      |
| 3.                               |
| Pituitary : Brain : : Thymus : ? |
| (A)                              |
| Larynx                           |
| (B)                              |
| Spinal Cord                      |
| (C)                              |
| Throat                           |

| (D)                                                          |
|--------------------------------------------------------------|
| Chest                                                        |
| Answer: (D)                                                  |
| 4.                                                           |
| "Here are some words translated from an artificial language. |
| gorblflur means fan belt                                     |
| pixngorbl means ceiling fan                                  |
| arthtusl means tile roof                                     |
| Which word could mean ""ceiling tile""?"                     |
| (A)                                                          |
| gorbltusl                                                    |
| (B)                                                          |
| flurgorbl                                                    |
| (C)                                                          |
| arthflur                                                     |
| (D)                                                          |
| pixnarth                                                     |

| Answer: (D)          |
|----------------------|
| 5.                   |
| A, CD, GHI, ?, UVWXY |
| (A)                  |
| LMNO                 |
| (B)                  |
| MNO                  |
| (C)                  |
| MNOP                 |
| (D)                  |
| NOPQ                 |
| Answer: (C)          |
| 6.                   |
| 6 10 14 18 22 26 30? |

(A)

| 36 40                     |
|---------------------------|
| (B)                       |
| 33 37                     |
| (C)                       |
| 38 42                     |
| (D)                       |
| 34 38                     |
| Answer: (D)               |
| 7.                        |
| Blunt : Sharp : : Sow : ? |
| (A)                       |
| Water                     |
| (B)                       |
| Crow                      |
| (C)                       |

| Farm                                                         |
|--------------------------------------------------------------|
| (D)                                                          |
| Reap                                                         |
| Answer: (D)                                                  |
| 8.                                                           |
| "Here are some words translated from an artificial language. |
| hapllesh means cloudburst                                    |
| srenchoch means pinball                                      |
| resbosrench means ninepin                                    |
| Which word could mean ""cloud nine""?"                       |
| (A)                                                          |
| leshsrench                                                   |
| (B)                                                          |
| ochhapl                                                      |
| (C)                                                          |
| haploch                                                      |
| (D)                                                          |

| AK, EO, IS, ? |  |
|---------------|--|
| (A)           |  |
| MW            |  |
| (B)           |  |
| MV            |  |
| (C)           |  |
| XW            |  |
| (D)           |  |
| NX            |  |
| Answer: (A)   |  |
| 9.            |  |
| AK, EO, IS, ? |  |

haplresbo

Answer: (D)

9.

| (B)                                |  |
|------------------------------------|--|
| MV                                 |  |
| (C)                                |  |
| XW                                 |  |
| (D)                                |  |
| NX                                 |  |
| Answer: (A)                        |  |
|                                    |  |
| 10.                                |  |
| 10.<br>8 12 9 13 10 14 11,?, ?     |  |
|                                    |  |
| 8 12 9 13 10 14 11,?, ?            |  |
| 8 12 9 13 10 14 11,?,? (A)         |  |
| 8 12 9 13 10 14 11,?,?  (A)  14 11 |  |

(A)

MW

| (C)                           |
|-------------------------------|
| 8 15                          |
| (D)                           |
| 15 19                         |
| Answer: (B)                   |
| 11.                           |
| Amnesia: Memory:: Paralysis:? |
| (A)                           |
| Movement                      |
| (B)                           |
| Limbs                         |
| (C)                           |
| Handicapped                   |
| (D)                           |
| Legs                          |

| Answer: (A)                                                  |
|--------------------------------------------------------------|
| 12.                                                          |
| "Here are some words translated from an artificial language. |
| agnoscrenia means poisonous spider                           |
| delanocrenia means poisonous snake                           |
| agnosdeery means brown spider                                |
| Which word could mean ""black widow spider""?"               |
|                                                              |
| (A)                                                          |
| deeryclostagnos                                              |
| (B)                                                          |
| agnosdelano                                                  |
| (C)                                                          |
| agnosvitriblunin                                             |
| (D)                                                          |
| trymuttiagnos                                                |
| Answer: (C)                                                  |

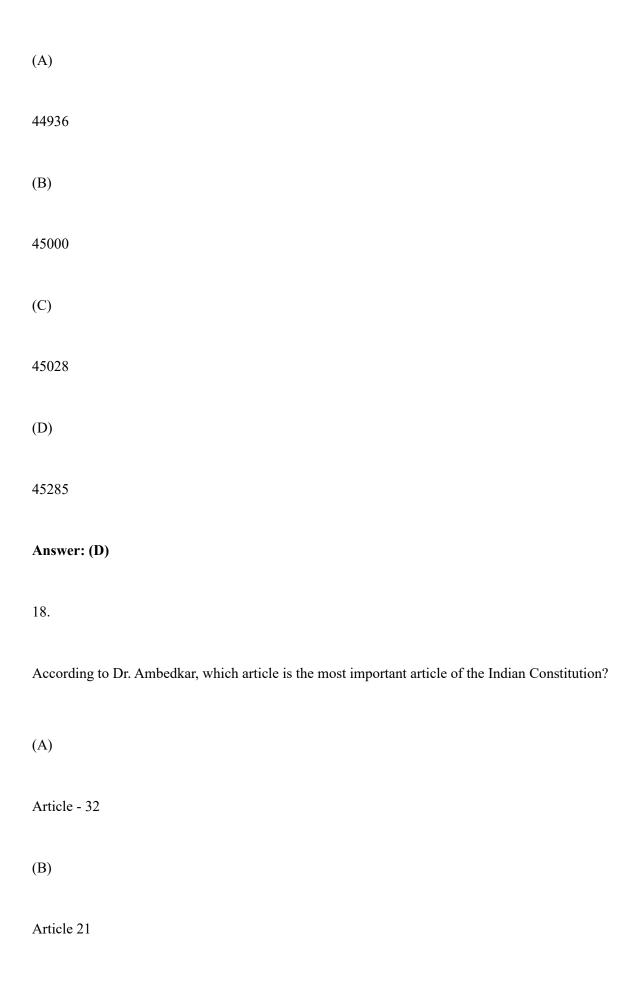
13.

| MHZ, NIW, OKT, PNQ, ? |
|-----------------------|
| (A)                   |
| RRN                   |
| (B)                   |
| QRN                   |
| (C)                   |
| QRM                   |
| (D)                   |
| QQN                   |
| Answer: (B)           |
| 14.                   |
| 36 31 29 24 22 17 15? |
| (A)                   |
| 13 11                 |
| (B)                   |

| (C)                           |
|-------------------------------|
| 13 8                          |
| (D)                           |
| 10 8                          |
| Answer: (D)                   |
| 15.                           |
| Book : Publisher : : Film : ? |
| (A)                           |
| Producer                      |
| (B)                           |
| Director                      |
| (C)                           |
| Editor                        |
| (D)                           |

10 5

| Writer                                                          |
|-----------------------------------------------------------------|
| Answer: (A)                                                     |
| 16.                                                             |
| World Minority Day is celebrated on which of the following day? |
| (A)                                                             |
| 45278                                                           |
| (B)                                                             |
| 44936                                                           |
| (C)                                                             |
| 44997                                                           |
| (D)                                                             |
| 45132                                                           |
| Answer: (A)                                                     |
| 17.                                                             |
| On which date is Good Governance Day celebrated in India?       |



| (C)                                   |
|---------------------------------------|
| Article - 24                          |
| (D)                                   |
| Article 256                           |
| Answer: (A)                           |
| 19.                                   |
| On which lake is the Tul Bul project? |
| (A)                                   |
| Kolleru Lake                          |
| (B)                                   |
| Chilka Lake                           |
| (C)                                   |
| Wular Lake                            |
| (D)                                   |
| Bhimtal Lake                          |

| Answer: (C)                                                                         |
|-------------------------------------------------------------------------------------|
| 20.                                                                                 |
| Where is Saat Tal Lake situated?                                                    |
| (A)                                                                                 |
| Uttarakhand                                                                         |
| (B)                                                                                 |
| Rajasthan                                                                           |
| (C)                                                                                 |
| Jammu and Kashmir                                                                   |
| (D)                                                                                 |
| Tamil Nadu                                                                          |
| Answer: (A)                                                                         |
| 21.                                                                                 |
| The country has recently deployed a fleet of underwater drones in the Indian Ocean? |
| (A)                                                                                 |

| Russia                                             |
|----------------------------------------------------|
| (B)                                                |
| Japan                                              |
| (C)                                                |
| China                                              |
| (D)                                                |
| Bangladesh                                         |
| Answer: (C)                                        |
| 22.                                                |
| The largest artificial freshwater lake in Asia is? |
| (A)                                                |
| Himayat Sagar, Hyderabad                           |
| (B)                                                |
| Udaipur, Dhebar Lake                               |
| (C)                                                |

| Kaliveli, Tamil Nadu                             |
|--------------------------------------------------|
| (D)                                              |
| Pulicat, Tamil Nadu                              |
| Answer: (B)                                      |
| 23.                                              |
| The largest natural freshwater lake in India is? |
| (A)                                              |
| Cho Lamu Lake                                    |
| (B)                                              |
| Lonar Lake                                       |
| (C)                                              |
| Dal Lake                                         |
| (D)                                              |
| Wular Lake                                       |
| Answer: (D)                                      |

| (A)                    |
|------------------------|
| Khari Lake             |
| (B)                    |
| dry lake               |
| (C)                    |
| Crater Lake            |
| (D)                    |
| Lagoon                 |
| Answer: (D)            |
| 25.                    |
| Where is Kolleru Lake? |
| (A)                    |
| Uttar Pradesh          |

24.

Pulicat is a?

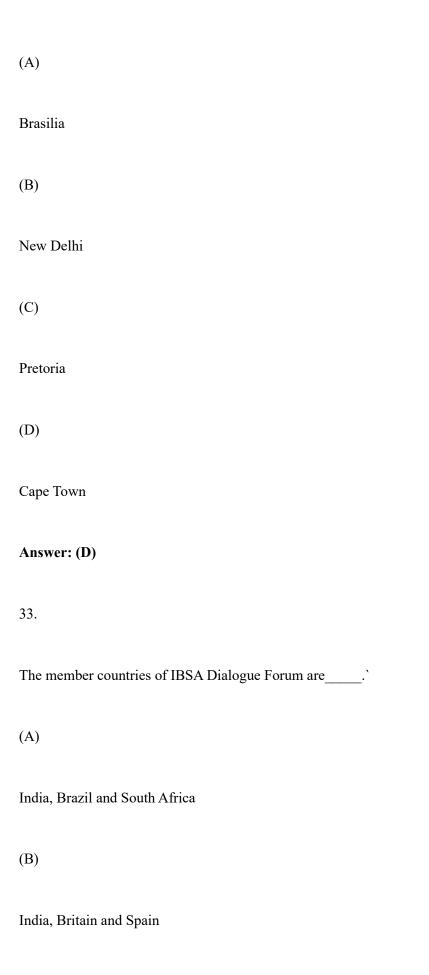
| (B)                                                           |
|---------------------------------------------------------------|
| Andhra Pradesh                                                |
| (C)                                                           |
| Madhya Pradesh                                                |
| (D)                                                           |
| Maharashtra                                                   |
| Answer: (B)                                                   |
| 26.                                                           |
| In which city was 102nd Indian Science Congress held in 2015? |
| (A)                                                           |
| Mumbai                                                        |
| (B)                                                           |
| Kolkata                                                       |
| (C)                                                           |
| Gandhinagar                                                   |

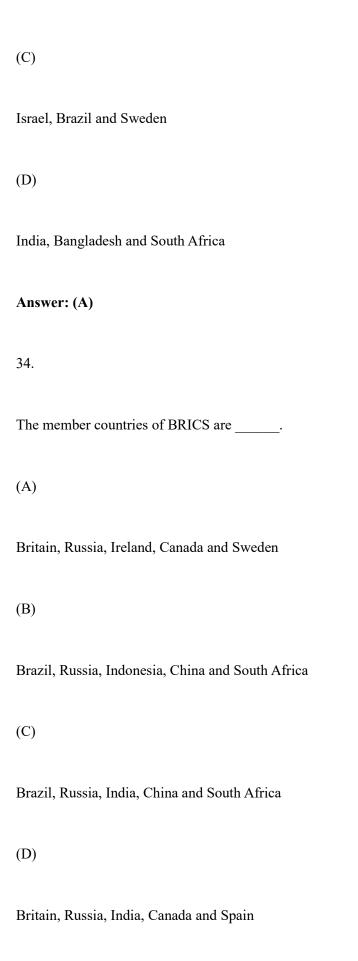
| (D)                                               |
|---------------------------------------------------|
| New Delhi                                         |
| Answer: (D)                                       |
| 27.                                               |
| In which city was 18th SAARC summit held in 2014? |
| (A)                                               |
| Islamabad                                         |
| (B)                                               |
| Kathmandu                                         |
| (C)                                               |
| New Delhi                                         |
| (D)                                               |
| Dhaka                                             |
| Answer: (A)                                       |
| 28.                                               |

| In which country was 6th BRICS Summit held in 2014?      |
|----------------------------------------------------------|
| (A)                                                      |
| Russia                                                   |
| (B)                                                      |
| South Africa                                             |
| (C)                                                      |
| India                                                    |
| (D)                                                      |
| Brazil                                                   |
| Answer: (C)                                              |
| 29.                                                      |
| In which city was UN Climate Change Summit held in 2014? |
| (A)                                                      |
| Paris                                                    |
| (B)                                                      |

| Brisbane                                        |
|-------------------------------------------------|
| (C)                                             |
| New York                                        |
| (D)                                             |
| Sydney                                          |
| Answer: (A)                                     |
| 30.                                             |
| In which city was 9th G-20 Summit held in 2014? |
| (A)                                             |
| Seoul                                           |
| (B)                                             |
| London                                          |
| (C)                                             |
| Saint Petersburg                                |
| (D)                                             |

| Brisbane                                          |
|---------------------------------------------------|
| Answer: (D)                                       |
| 31.                                               |
| In which city was 25th ASEAN Summit held in 2014? |
| (A)                                               |
| Nay Pyi Daw                                       |
| (B)                                               |
| Singapore                                         |
| (C)                                               |
| Bail                                              |
| (D)                                               |
| Kulala Lumpur                                     |
| Answer: (D)                                       |
| 32.                                               |
| The 6th IBSA Summit was held in 2013 at           |





| Answer: (C)                                                                                              |
|----------------------------------------------------------------------------------------------------------|
| 35.                                                                                                      |
| Following 2014 Crimean crisis, the G-8 Group became G-7 Group by expelling                               |
|                                                                                                          |
| (A)                                                                                                      |
| Russia                                                                                                   |
| (B)                                                                                                      |
| Germany                                                                                                  |
| (C)                                                                                                      |
| France                                                                                                   |
| (D)                                                                                                      |
| Canada                                                                                                   |
| Answer: (B)                                                                                              |
| 36                                                                                                       |
| The conversion of a reactant, undergoing a first order reaction, at a time equal to three times the half |

life of the reaction is

| (A)                                                                                              |
|--------------------------------------------------------------------------------------------------|
| 0.875                                                                                            |
| (B)                                                                                              |
| 0.5                                                                                              |
| (C)                                                                                              |
| 0.425                                                                                            |
| (D)                                                                                              |
| Data insufficient to calculate                                                                   |
| Answer: (A)                                                                                      |
| 37.                                                                                              |
| A typical example of an exothermic reversible reaction conducted at high pressure in industry is |
| (A)                                                                                              |
| Dehydration of ethanol                                                                           |
| (B)                                                                                              |
| Methanol synthesis                                                                               |

| (C)                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Reformation of methane                                                                                                                           |
| (D)                                                                                                                                              |
| Polymerisation of ethylene                                                                                                                       |
| Answer: (A)                                                                                                                                      |
| 38.                                                                                                                                              |
| Recycling back of outlet stream to the reactor from an ideal CSTR carrying out a first order liquid phase reaction will result in in conversion. |
| (A)                                                                                                                                              |
| Decrease                                                                                                                                         |
| (B)                                                                                                                                              |
| Increase                                                                                                                                         |
| (C)                                                                                                                                              |
| No change                                                                                                                                        |
| (D)                                                                                                                                              |
| Either decrease or increase depends on the type of reaction                                                                                      |

| Answer: (C)                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------|
| 39.                                                                                                                           |
| Threshold energy in a reaction is equal to the                                                                                |
| (A)                                                                                                                           |
| Activation energy                                                                                                             |
| (B)                                                                                                                           |
| Normal energy of reactants                                                                                                    |
| (C)                                                                                                                           |
| Both Activation energy & Normal energy of reactants                                                                           |
| (D)                                                                                                                           |
| None                                                                                                                          |
| Answer: (C)                                                                                                                   |
| 40.                                                                                                                           |
| In case of calcination of limestone, CaCO3 CaO + CO2, the addition of more of CaO will result in in the concentration of CO2. |

| (A)                                                                        |
|----------------------------------------------------------------------------|
| No change                                                                  |
| (B)                                                                        |
| Increase                                                                   |
| (C)                                                                        |
| Decrease                                                                   |
| (D)                                                                        |
| Unpredictable from the data                                                |
| Answer: (A)                                                                |
| 41.                                                                        |
| The equilibrium constant of chemical reaction in the presence of catalyst. |
| (A)                                                                        |
| Increases                                                                  |
| (B)                                                                        |
| Decreases                                                                  |

| (C)                                                                      |
|--------------------------------------------------------------------------|
| Remains unaffected                                                       |
| (D)                                                                      |
| Can either increase or decrease (depends on the type of catalyst)        |
| Answer: (C)                                                              |
| 42.                                                                      |
| From among the following, choose one which is not an exothermic process. |
| (A)                                                                      |
| Methanol synthesis                                                       |
| (B)                                                                      |
| Catalytic cracking                                                       |
| (C)                                                                      |
| Ammonia synthesis                                                        |
| (D)                                                                      |
| Oxidation of sulphur                                                     |

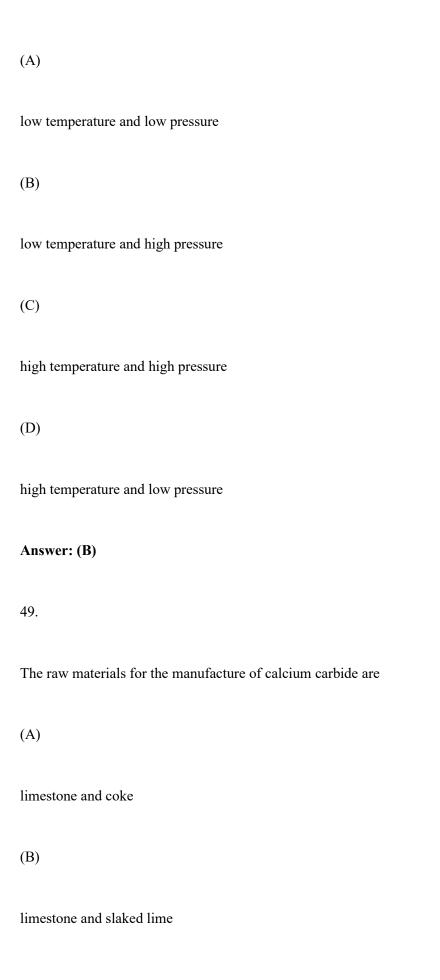
The rate constant of a chemical reaction increases by 100 times when the temperature is increased

from 400 °K to 500 °K. Assuming transition state theory is valid, the value of E/R is

| (A)                                                                             |
|---------------------------------------------------------------------------------|
| 8987°K                                                                          |
| (B)                                                                             |
| 9210°K                                                                          |
| (C)                                                                             |
| 8764°K                                                                          |
| (D)                                                                             |
| 8621°K                                                                          |
| Answer: (B)                                                                     |
| 45.                                                                             |
| The catalytic activity of enzymes is due to their capacity to lower the energy. |
|                                                                                 |
| (A)                                                                             |
| Activation                                                                      |
| (B)                                                                             |

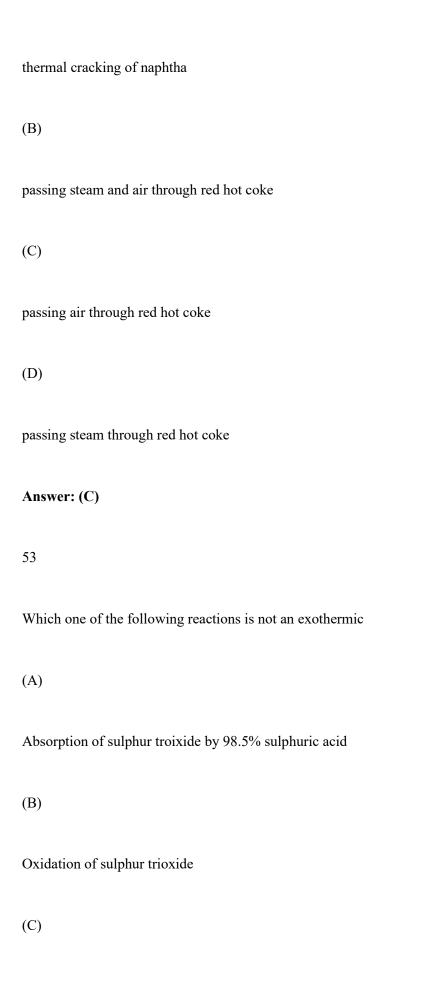
| Potential                                                                 |
|---------------------------------------------------------------------------|
| (C)                                                                       |
| Kinetic                                                                   |
| (D)                                                                       |
| None of these                                                             |
| Answer: (A)                                                               |
| 46.                                                                       |
| For a fluidised bed reactor, the most suitable/relevant model is a model. |
|                                                                           |
| (A)                                                                       |
| Tank in series                                                            |
| (B)                                                                       |
| Bubbling bed                                                              |
| (C)                                                                       |
| Plug flow                                                                 |
| (D)                                                                       |

| None of these                                       |
|-----------------------------------------------------|
| Answer: (B)                                         |
| 47.                                                 |
| High purity oxygen is used for                      |
| (A)                                                 |
| welding                                             |
| (B)                                                 |
| cutting of metals                                   |
| (C)                                                 |
| medicinal purposes                                  |
| (D)                                                 |
| all of these                                        |
| Answer: (D)                                         |
| 48.                                                 |
| The liquefaction of gases in general is favoured at |



| (C)                                        |
|--------------------------------------------|
| limestone and sand                         |
| (D)                                        |
| limestone and caustic soda                 |
| Answer: (A)                                |
| 50.                                        |
| Acetylene is manufactured by               |
| (A)                                        |
| reacting calcium carbide with liquid water |
| (B)                                        |
| Sachsse process                            |
| (C)                                        |
| Wulff process                              |
| (D)                                        |
| all of these                               |

| Answer: (D)                        |  |
|------------------------------------|--|
| 51.                                |  |
| The producer gas is mainly used in |  |
| (A)                                |  |
| petroleum refinery                 |  |
| (B)                                |  |
| fertilizer industry                |  |
| (C)                                |  |
| steel industry                     |  |
| (D)                                |  |
| pharmaceutical industry            |  |
| Answer: (C)                        |  |
| 52.                                |  |
| Producer gas is obtained by        |  |
| (A)                                |  |



| Oxidation of sulphur to sulphur dioxide |
|-----------------------------------------|
| (D)                                     |
| Thermal dissociation of iron pyrites    |
| Answer: (D)                             |
| 54.                                     |
| Grignard reagent is                     |
| (A)                                     |
| ethyl magnesium chloride                |
| (B)                                     |
| ethyl chloride                          |
| (C)                                     |
| sodium sulphate                         |
| (D)                                     |
| sodium cabonate                         |
| Answer: (A)                             |

potassium bicarbonate does not decompose on heating

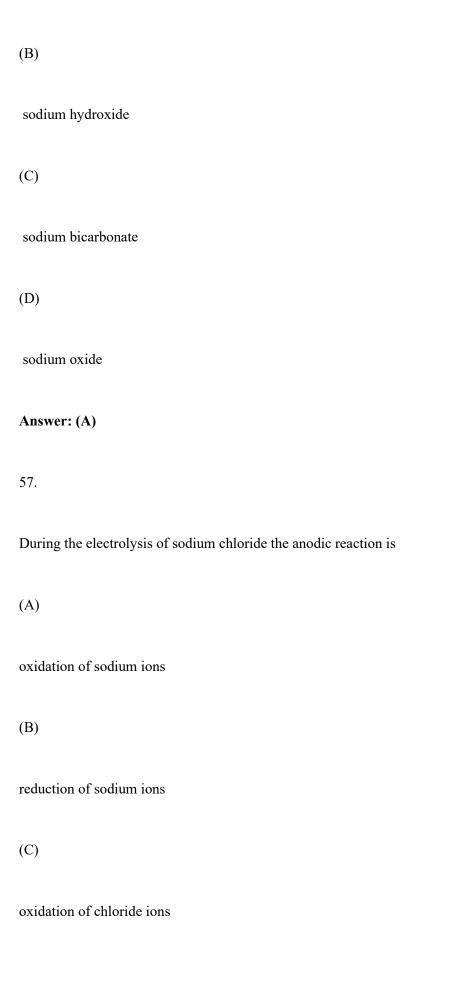
Answer: (C)

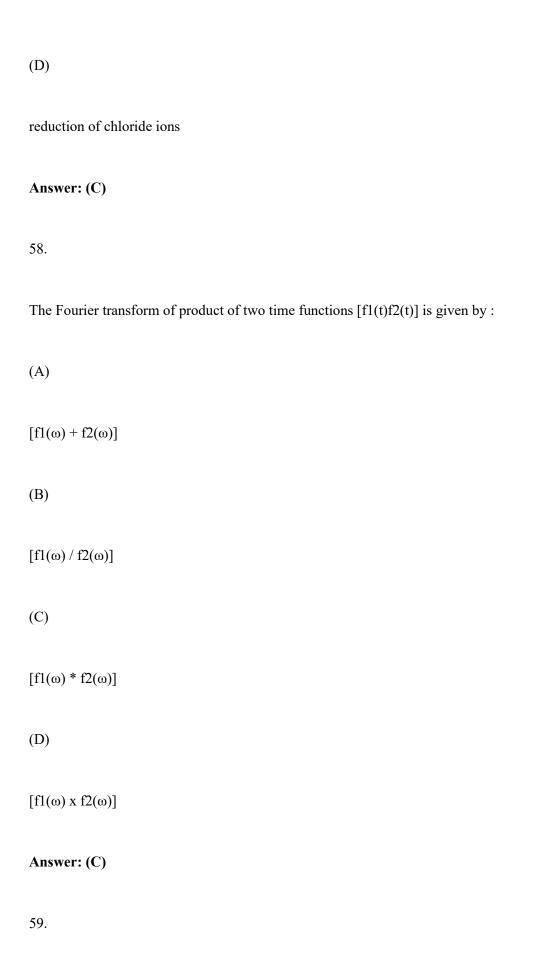
56.

Soda ash is also called

(A)

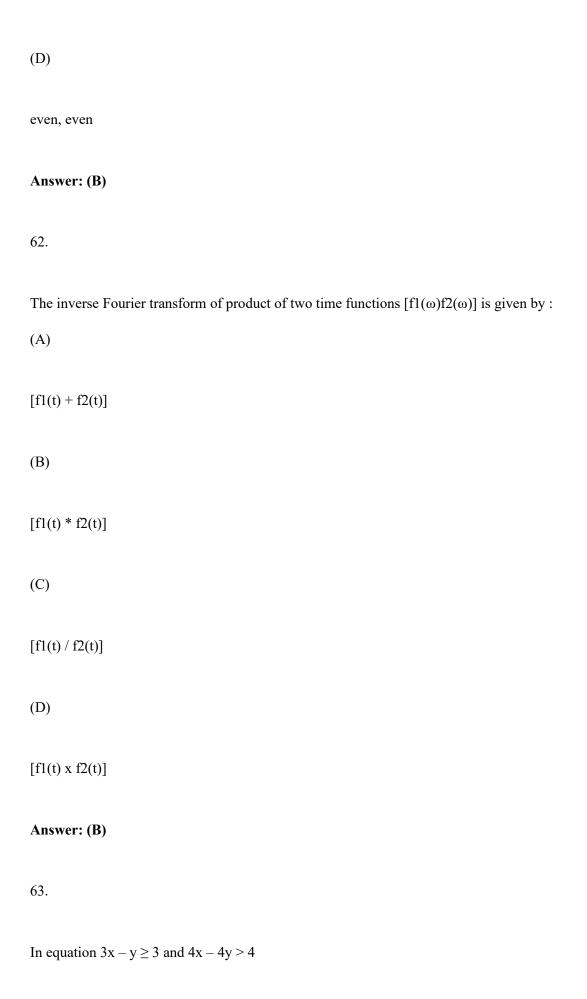
sodium carbonate





| The magnitude spectrum of a Fourier transform of a real-valued time signal has   | symmetry. |
|----------------------------------------------------------------------------------|-----------|
|                                                                                  |           |
| (A)                                                                              |           |
| no                                                                               |           |
| (B)                                                                              |           |
| odd                                                                              |           |
| (C)                                                                              |           |
| even                                                                             |           |
| (D)                                                                              |           |
| conjugate                                                                        |           |
| Answer: (C)                                                                      |           |
| 60.                                                                              |           |
| The trigonometric Fourier series of a periodic time function can have only terms |           |
|                                                                                  |           |
| (A)                                                                              |           |
| sine                                                                             |           |

| (B)                                                                                      |     |
|------------------------------------------------------------------------------------------|-----|
| cosine                                                                                   |     |
| (C)                                                                                      |     |
| sine and cosine                                                                          |     |
| (D)                                                                                      |     |
| dc and cosine                                                                            |     |
| Answer: (D)                                                                              |     |
| 61.                                                                                      |     |
|                                                                                          |     |
| In Fourier series expansion, An will zero for function and will be zero for function     | on. |
| In Fourier series expansion, An will zero for function and will be zero for function     | on. |
| In Fourier series expansion, An will zero for function and will be zero for function (A) | on. |
|                                                                                          | on. |
| (A)                                                                                      | on. |
| (A) odd, odd                                                                             | on. |
| (A) odd, odd (B)                                                                         | on. |



| (A)                                        |
|--------------------------------------------|
| Have solution for positive x and y         |
| (B)                                        |
| Have no solution for positive x and y      |
| (C)                                        |
| Have solution for all x                    |
| (D)                                        |
| Have solution for all y                    |
| Answer: (A)                                |
| 64.                                        |
| In a LPP, the objective function is always |
| (A)                                        |
| Linear                                     |
| (B)                                        |
| Quadratic                                  |

| (C)                                                        |
|------------------------------------------------------------|
| Cubic                                                      |
| (D)                                                        |
| Biquadratic                                                |
| Answer: (A)                                                |
| 65.                                                        |
| The objective function of a linear programming problem is: |
| (A)                                                        |
| a constraint                                               |
| (B)                                                        |
| function to be optimised                                   |
| (C)                                                        |
| A relation between the variables                           |
| (D)                                                        |
| None of these                                              |

| Answer: (B)                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------|
| 66.                                                                                                               |
| The linear inequalities or equations or restrictions on the variables of a linear programming problem are called: |
| (A)                                                                                                               |
| a constraint                                                                                                      |
| (B)                                                                                                               |
| Decision variables                                                                                                |
| (C)                                                                                                               |
| Objective function                                                                                                |
| (D)                                                                                                               |
| None of these                                                                                                     |
| Answer: (A)                                                                                                       |
| 67.                                                                                                               |
| Which of the following is a type of Linear programming problem?                                                   |

| (A)                                                |
|----------------------------------------------------|
| Manufacturing problem                              |
| (B)                                                |
| Diet problem                                       |
| (C)                                                |
| Transportation problems                            |
| (D)                                                |
| All of these                                       |
| Answer: (D)                                        |
| 68.                                                |
| Feasible region in the set of points which satisfy |
| (A)                                                |
| The objective functions                            |
| (B)                                                |
| Some the given constraints                         |

| (C)                                                                                      |
|------------------------------------------------------------------------------------------|
| All of the given constraints                                                             |
| (D)                                                                                      |
| None of these                                                                            |
| Answer: (C)                                                                              |
| 69.                                                                                      |
| Which of the following cannot be the value of absolute pressure of a fluid at any point? |
| (A)                                                                                      |
| 0                                                                                        |
| (B)                                                                                      |
| 1.45 bar                                                                                 |
| (C)                                                                                      |
| – 1 bar                                                                                  |
| (D)                                                                                      |
| 24 bar                                                                                   |
| Answer: (C)                                                                              |

| 70.                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------|
| When the body is completely or partially immersed in a fluid, how much its weight be distributed for it to be in stable equilibrium. |
| (A)                                                                                                                                  |
| Is independent of weight distribution                                                                                                |
| (B)                                                                                                                                  |
| Around the lower part                                                                                                                |
| (C)                                                                                                                                  |
| round the upper part                                                                                                                 |
| (D)                                                                                                                                  |
| None of the mentioned                                                                                                                |
| Answer: (B)                                                                                                                          |
| 71.                                                                                                                                  |
| Which of the following equation must be perfunctorily satisfied while dealing with fluid flow problems?                              |
|                                                                                                                                      |

| (A)                                                                      |
|--------------------------------------------------------------------------|
| Newton's third law                                                       |
| (B)                                                                      |
| Law of conservation of momentum                                          |
| (C)                                                                      |
| Continuity equation                                                      |
| (D)                                                                      |
| Newton's second law                                                      |
| Answer: (C)                                                              |
| 72.                                                                      |
| Which among the following is an assumption of Hagen-Poiseuille equation? |
| (A)                                                                      |
| Fluid is uniform                                                         |
| (B)                                                                      |
| Fluid is laminar                                                         |

| (C)                                                                            |
|--------------------------------------------------------------------------------|
| Fluid is turbulent                                                             |
| (D)                                                                            |
| Fluid is compressible                                                          |
| Answer: (B)                                                                    |
| 73.                                                                            |
| Which of the following is a formula for the friction factor of circular pipes? |
| (A)                                                                            |
| Re/64                                                                          |
| (B)                                                                            |
| 16/Re                                                                          |
| (C)                                                                            |
| 64/Re                                                                          |
| (D)                                                                            |
| Re/16                                                                          |

| Dimensional analysis                                           |
|----------------------------------------------------------------|
| (B)                                                            |
| Temperature analysis                                           |
| (C)                                                            |
| Pressure analysis                                              |
| (D)                                                            |
| Combustion analysis                                            |
| Answer: (A)                                                    |
| 76.                                                            |
| Which among the following have the same forces acting on them? |
| (A)                                                            |
| Dynamic similarity                                             |
| (B)                                                            |
| Geometric similarity                                           |
| (C)                                                            |

| Conditional similarity                                           |  |
|------------------------------------------------------------------|--|
| (D)                                                              |  |
| Kinematic similarity                                             |  |
| Answer: (A)                                                      |  |
| 77.                                                              |  |
| Absorption with chemical reaction' is involved in the removal of |  |
| (A)                                                              |  |
| Carbon dioxide from gaseous stream using alkaline solution       |  |
| (B)                                                              |  |
| Benzol from coke oven gas using solar oil/wash oil               |  |
| (C)                                                              |  |
| Ammonia from coke oven gas using refrigerated water              |  |
| (D)                                                              |  |
| Tar from coke oven gas in primary gas coolers using chilled wate |  |
| Answer: (A)                                                      |  |

"Direction: It consists of two statements, one labelled as 'Statement (I)' and the others as 'Statement (II)'. You are to examine these two statements carefully and select the answer using the codes given below:

Statement (I): The concept of Just-In-Time is operationalized when the exact number of units required are bought at each successive stage of production, at the appropriate time.

Statement (II): Just-In-Time concept has been expanded to mean a manufacturing philosophy of eliminating waste."

(A)

Both Statement (I) and Statement (II) individually true and Statement (II) is the correct explanation of Statement (I)

(B)

Both statement (I) and Statement (II) are individually true, but Statement (II) is not the correct explanation of Statement (I)

(C)

Statement (I) is true, but Statement (II) is false

(D)

Statement (I) is false, but Statement (II) is true

| Answer: (B)                                                                                                                                                                                  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| 79.                                                                                                                                                                                          |  |  |
| The ratio of the largest load in a test to the original cross-sectional area of the test specimen is called the stress.                                                                      |  |  |
| (A)                                                                                                                                                                                          |  |  |
| Yield point                                                                                                                                                                                  |  |  |
| (B)                                                                                                                                                                                          |  |  |
| Breaking                                                                                                                                                                                     |  |  |
| (C)                                                                                                                                                                                          |  |  |
| Ultimate                                                                                                                                                                                     |  |  |
| (D)                                                                                                                                                                                          |  |  |
| None of these                                                                                                                                                                                |  |  |
| Answer: (C)                                                                                                                                                                                  |  |  |
| 80.                                                                                                                                                                                          |  |  |
| A sand mixture was screened through a standard 20-mesh screen. The mass fraction of oversize material in feed, overflow and underflow were found to be 0.50, 0.70 and 0.20 respectively. The |  |  |

screen effectiveness based on the undersize is \_\_\_\_\_.

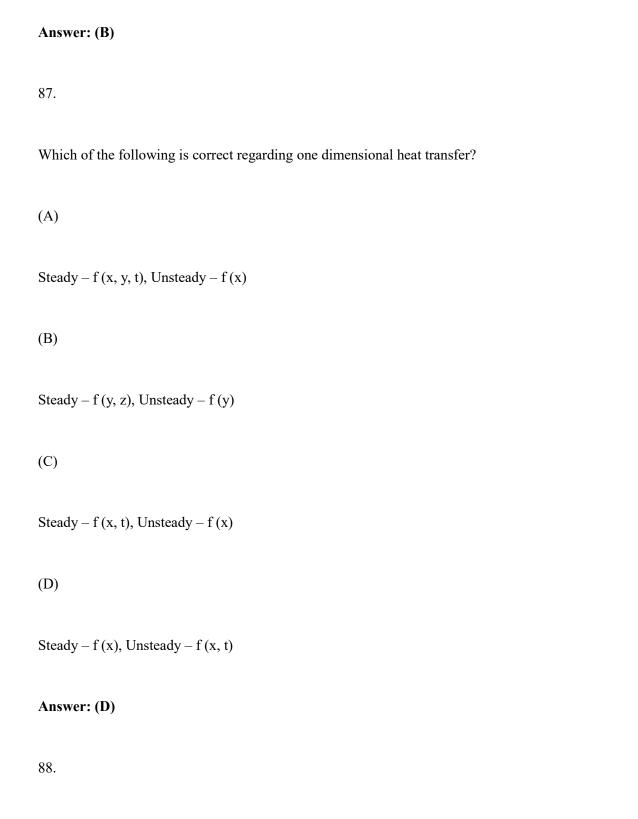
| (A)                                                                                 |
|-------------------------------------------------------------------------------------|
| 0.64                                                                                |
| (B)                                                                                 |
| 0.56                                                                                |
| (C)                                                                                 |
| 0.46                                                                                |
| (D)                                                                                 |
| None of the mentioned                                                               |
| Answer: (A)                                                                         |
| 81.                                                                                 |
| What is heat transfer?                                                              |
| (A)                                                                                 |
| Flow of thermal energy from low-temperature reservoir to high-temperature reservoir |
| (D)                                                                                 |
| (B)                                                                                 |

| Flow of energy in the form of heat from high-temperature reservoir to low-temperature reservoir (C) |
|-----------------------------------------------------------------------------------------------------|
| Flow of thermal energy irrespective of reservoir temperature                                        |
| (D)                                                                                                 |
| None of these                                                                                       |
| Answer: (B)                                                                                         |
| 82.                                                                                                 |
| Which of the following is a method of heat transfer?                                                |
| (A)                                                                                                 |
| Convection                                                                                          |
| (B)                                                                                                 |
| Radiation                                                                                           |
| (C)                                                                                                 |
| Conduction                                                                                          |
| (D)                                                                                                 |
| All of the mentioned                                                                                |

| Answer: (D)                                                        |  |
|--------------------------------------------------------------------|--|
| 83.                                                                |  |
| Heat transfer takes place according to which of the following law? |  |
| (A)                                                                |  |
| Newton's second law of motion                                      |  |
| (B)                                                                |  |
| First law of thermodynamics                                        |  |
| (C)                                                                |  |
| Newton's law of cooling                                            |  |
| (D)                                                                |  |
| Second law of thermodynamics                                       |  |
| Answer: (D)                                                        |  |
| 84.                                                                |  |
| Which of the following is the rate of heat transfer unit?          |  |
| (A)                                                                |  |

| Watt                                                                |  |
|---------------------------------------------------------------------|--|
| (B)                                                                 |  |
| Pascal                                                              |  |
| (C)                                                                 |  |
| Joule                                                               |  |
| (D)                                                                 |  |
| Newton                                                              |  |
| Answer: (A)                                                         |  |
| 85.                                                                 |  |
| Which of the following is an example of steady-state heat transfer? |  |
| (A)                                                                 |  |
| Electric bulb cools down by the surrounding atmosphere              |  |
| (B)                                                                 |  |
| Chilling effect of cold wind on a warm body                         |  |
| (C)                                                                 |  |

| Boilers and turbines                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (D)                                                                                                                                                              |
| Cooling of I.C engine                                                                                                                                            |
| Answer: (A)                                                                                                                                                      |
| 86.                                                                                                                                                              |
| Which way is heat transfer believed to take place in a long, hollow cylinder that is kept at consistent but varied temperatures on its inner and outer surfaces? |
| (A)                                                                                                                                                              |
| Unpredictable                                                                                                                                                    |
| (B)                                                                                                                                                              |
| Radial only                                                                                                                                                      |
| (C)                                                                                                                                                              |
| No heat transfer takes place                                                                                                                                     |
| (D)                                                                                                                                                              |
| Axial only                                                                                                                                                       |



A person prefers to sit by a fire during the cold winter months. Which of the following heat transfer types gives him with the most heat?

| (A)                                                                                 |
|-------------------------------------------------------------------------------------|
| Convection and radiation together                                                   |
| (B)                                                                                 |
| Radiation will provide quick warmth                                                 |
| (C)                                                                                 |
| If it is near the fire, convection sounds good                                      |
| (D)                                                                                 |
| Conduction from the fire                                                            |
| Answer: (B)                                                                         |
| 89.                                                                                 |
| On which of the following does convective heat transfer coefficient doesn't depend? |
| (A)                                                                                 |
| Orientation of solid surface                                                        |
| (B)                                                                                 |
| Time                                                                                |

| (C)                                                            |
|----------------------------------------------------------------|
| Surface area                                                   |
| (D)                                                            |
| Space                                                          |
| Answer: (C)                                                    |
| 90.                                                            |
| In liquids and gases, heat transmission is primarily caused by |
| (A)                                                            |
| Convection                                                     |
| (B)                                                            |
| Radiation                                                      |
| (C)                                                            |
| Conduction                                                     |
| (D)                                                            |
| Conduction as well as convection                               |

| Answer: (A)                                                                   |
|-------------------------------------------------------------------------------|
| 91.                                                                           |
| For conduction heat transfer, the heat energy propagation will be minimal for |
|                                                                               |
| (A)                                                                           |
| Copper                                                                        |
| (B)                                                                           |
| Air                                                                           |
| (C)                                                                           |
| Water                                                                         |
| (D)                                                                           |
| Lead                                                                          |
| Answer: (B)                                                                   |
| 92.                                                                           |
| Instrumentation in a plant offers the advantage of                            |
| (A)                                                                           |

| Greater safety of operation                                                   |
|-------------------------------------------------------------------------------|
| (B)                                                                           |
| Better quality of product                                                     |
| (C)                                                                           |
| Greater operation economy                                                     |
| (D)                                                                           |
| All of these                                                                  |
| Answer: (D)                                                                   |
| 93.                                                                           |
| Select the correct statement from the following.                              |
| (A)                                                                           |
| The frequency response of a pure capacity process is unbounded                |
| (B)                                                                           |
| The phase lag of a pure time delay system decreases with increasing frequency |
| (C)                                                                           |

| The amplitude ratio of a pure capacity process is inversely proportional to frequency     |
|-------------------------------------------------------------------------------------------|
|                                                                                           |
| (D)                                                                                       |
|                                                                                           |
| The amplitude ratio of a pure time delay system increases with frequency                  |
| Answer: (C)                                                                               |
|                                                                                           |
| 94.                                                                                       |
|                                                                                           |
| Which of the following instruments is not used for measuring sub-zero (<0°) temperatures? |
|                                                                                           |
| (A)                                                                                       |
|                                                                                           |
| Platinum resistance thermometer                                                           |
|                                                                                           |
| (B)                                                                                       |
|                                                                                           |
| Mercury in glass thermometer                                                              |
| (C)                                                                                       |
|                                                                                           |
| Vapor pressure thermometer                                                                |
|                                                                                           |
| (D)                                                                                       |
| Radiation pyrometer                                                                       |
|                                                                                           |

| I | Answer: (D)                                                                                             |
|---|---------------------------------------------------------------------------------------------------------|
| ç | 95.                                                                                                     |
| 1 | A non-linear chemical system is exemplified by a/an                                                     |
| ( | (A)                                                                                                     |
| I | sothermal CSTR                                                                                          |
| ( | (B)                                                                                                     |
| ľ | Mixer                                                                                                   |
| ( | (C)                                                                                                     |
| 1 | Non-isothermal CSTR                                                                                     |
| ( | (D)                                                                                                     |
| 1 | None of these                                                                                           |
| I | Answer: (C)                                                                                             |
| ç | 96.                                                                                                     |
|   | Thermal well made of gives the fastest speed of response, while measuring temperature by thermocouples. |

| (A)                             |
|---------------------------------|
| Steel                           |
| (B)                             |
| Vycor (a glass)                 |
| (C)                             |
| Nichrome                        |
| (D)                             |
| Inconel                         |
| Answer: (B)                     |
| 97.                             |
| Silver point temperature is °C. |
| (A)                             |
| 760.5                           |
| (B)                             |
| 860.5                           |

| (C)                                                                 |
|---------------------------------------------------------------------|
| 960.5                                                               |
| (D)                                                                 |
| 1060.5                                                              |
| Answer: (C)                                                         |
| 98.                                                                 |
| Which of the following controllers has the least maximum deviation? |
| (A)                                                                 |
| P-controller                                                        |
| (B)                                                                 |
| P-I controller                                                      |
| (C)                                                                 |
| P-I-D controller                                                    |
| (D)                                                                 |
| P-D controller                                                      |

| Answer: (D)                                                                                   |
|-----------------------------------------------------------------------------------------------|
| 99.                                                                                           |
| controller has the maximum stabilising time.                                                  |
| (A)                                                                                           |
| P                                                                                             |
| (B)                                                                                           |
| PD                                                                                            |
| (C)                                                                                           |
| PI                                                                                            |
| (D)                                                                                           |
| PID                                                                                           |
| Answer: (C)                                                                                   |
| 100.                                                                                          |
| A control system is unstable, if the open loop frequency response exhibits an amplitude ratio |
| exceeding unity at the crossover frequency. This is criterion.                                |

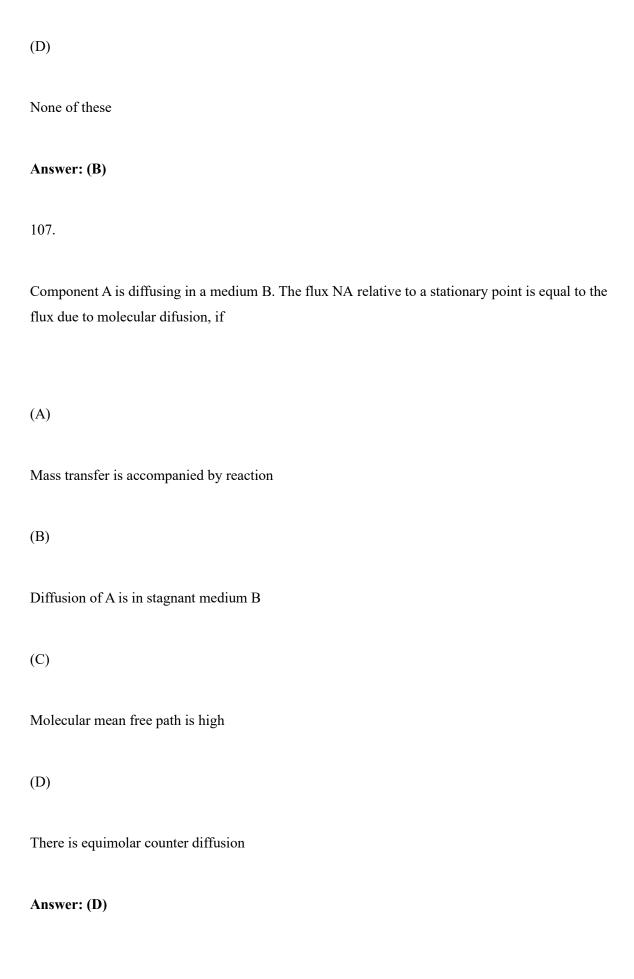
| (A)                                                                                                      |
|----------------------------------------------------------------------------------------------------------|
| Bode stability                                                                                           |
| (B)                                                                                                      |
| Nyquist                                                                                                  |
| (C)                                                                                                      |
| Routh stability                                                                                          |
| (D)                                                                                                      |
| None of these                                                                                            |
| Answer: (A)                                                                                              |
| 101.                                                                                                     |
| Bode diagram are generated from output response of the system subjected to which of the following input? |
|                                                                                                          |
| (A)                                                                                                      |
| Impulse                                                                                                  |
| (B)                                                                                                      |

| Step                                                                                                       |
|------------------------------------------------------------------------------------------------------------|
| (C)                                                                                                        |
| Ramp                                                                                                       |
| (D)                                                                                                        |
| Sinusoidal                                                                                                 |
| Answer: (D)                                                                                                |
| 102.                                                                                                       |
| Working principle of mercury in glass thermometer is based on the of mercury with increase in temperature. |
|                                                                                                            |
| (A)                                                                                                        |
| (A) Increase of pressure                                                                                   |
|                                                                                                            |
| Increase of pressure                                                                                       |
| Increase of pressure (B)                                                                                   |

| (D)                                                             |
|-----------------------------------------------------------------|
| Differential linear expansion                                   |
| Answer: (C)                                                     |
| 103.                                                            |
| Which of the following is directly concerned with psychrometry? |
| (A)                                                             |
| Lewis relationship                                              |
| (B)                                                             |
| Galileo number                                                  |
| (C)                                                             |
| Weber number (D)                                                |
| Dean number                                                     |
| Answer: (A)                                                     |
| 104.                                                            |

| The 'shanks system' of leaching (i.e., counter-current multiple contact leaching) is used for                     |
|-------------------------------------------------------------------------------------------------------------------|
| (A)                                                                                                               |
| Recovery of tannis from the tree barks and woods                                                                  |
| (B)                                                                                                               |
| Leaching sodium nitrate from Chilean nitrate bearing rock                                                         |
| (C)                                                                                                               |
| Both Recovery of tannis from the tree barks and woods & Leaching sodium nitrate from Chilean nitrate bearing rock |
| (D)                                                                                                               |
| None of these                                                                                                     |
| Answer: (C)                                                                                                       |
| 105.                                                                                                              |
| Which is not concerned directly with mass transfer?                                                               |
| (A)                                                                                                               |
| Schmidt number                                                                                                    |

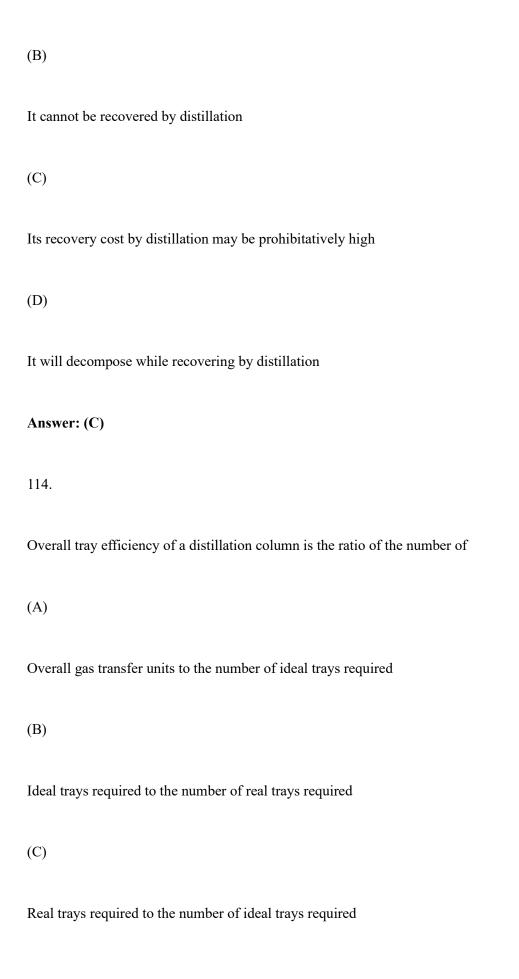
| (B)                                                                            |    |
|--------------------------------------------------------------------------------|----|
| Sherwood number                                                                |    |
| (C)                                                                            |    |
| Lewis relationship                                                             |    |
| (D)                                                                            |    |
| Froude number                                                                  |    |
| Answer: (D)                                                                    |    |
| 106.                                                                           |    |
| Calculation of mass transfer co-efficient is mostly/normally done using theory | ·. |
|                                                                                |    |
| (A)                                                                            |    |
| Surface renewal                                                                |    |
|                                                                                |    |
| (B)                                                                            |    |
|                                                                                |    |
| Film (C)                                                                       |    |

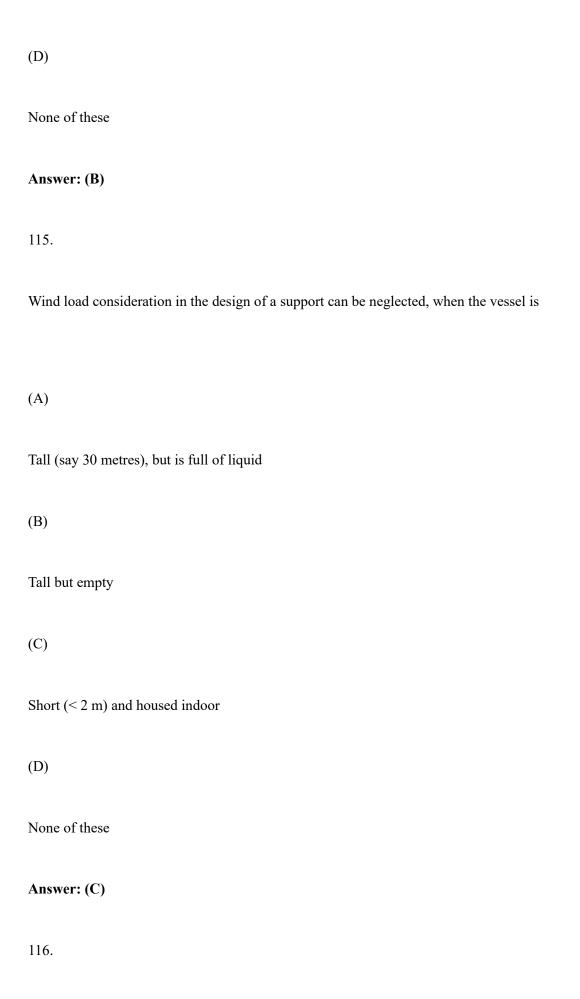


| 108.                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| One mole feed of a binary mixture of a given composition is flash vaporised at a fixed P and T. If Raoult's law is obeyed, then changing the feed composition would effect |
| (A)                                                                                                                                                                        |
| The product composition but not the fraction vaporised                                                                                                                     |
| (B)                                                                                                                                                                        |
| The product composition as well as the fraction vaporised                                                                                                                  |
| (C)                                                                                                                                                                        |
| The fraction vaporised but not the product composition                                                                                                                     |
| (D)                                                                                                                                                                        |
| Neither the product composition nor the fraction vaporised                                                                                                                 |
| Answer: (C)                                                                                                                                                                |
| 109.                                                                                                                                                                       |
| The recovery of pencillin from the acidified fermentation broth is done by                                                                                                 |
| (A)                                                                                                                                                                        |

| Distillation                                                                             |
|------------------------------------------------------------------------------------------|
| (B)                                                                                      |
| Evaporation                                                                              |
| (C)                                                                                      |
| Absorption                                                                               |
| (D)                                                                                      |
| Liquid extraction                                                                        |
| Answer: (D)                                                                              |
| 110.                                                                                     |
| Absorption factor, for a fixed degree of absorption from a fixed amount of gas should be |
|                                                                                          |
| (A)                                                                                      |
| 1                                                                                        |
| (B)                                                                                      |
| > 1                                                                                      |
| (C)                                                                                      |

| < 1                                                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (D)                                                                                                                                                                                                                                                     |
| ≤ 1                                                                                                                                                                                                                                                     |
| Answer: (B)                                                                                                                                                                                                                                             |
| 111.                                                                                                                                                                                                                                                    |
| Polar organic compounds are normally used as separating agents for the azeotropic and extractive distillation. Which of the following is the most important factor to be considered for the choice of the separating agent for extractive distillation? |
| (A)                                                                                                                                                                                                                                                     |
| Cost                                                                                                                                                                                                                                                    |
| (B)                                                                                                                                                                                                                                                     |
| Availability                                                                                                                                                                                                                                            |
| (C)                                                                                                                                                                                                                                                     |
| Toxicity                                                                                                                                                                                                                                                |
| (D)                                                                                                                                                                                                                                                     |
| Selectivity                                                                                                                                                                                                                                             |





| Vertical condenser is advantageous to the horizontal condenser from operation point of view, when                  |
|--------------------------------------------------------------------------------------------------------------------|
| (A)                                                                                                                |
| Hydrostatic head is required for refluxing the condensate                                                          |
| (B)                                                                                                                |
| Only the function of condensation is to be carried out                                                             |
| (C)                                                                                                                |
| Sub cooling of condensate is desired                                                                               |
| (D)                                                                                                                |
| Both the functions of condensation & sub cooling are carried out in a single unit                                  |
| Answer: (D)                                                                                                        |
| 117.                                                                                                               |
| In a distillation column, bubble caps are located on trays with a pitch of times the outside diameter of the caps. |
| (A)                                                                                                                |
| 1.3 to 2                                                                                                           |

| (B)                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------|
| 1.6 to 2                                                                                                           |
| (C)                                                                                                                |
| 2.5                                                                                                                |
| (D)                                                                                                                |
| 1.5 to 3                                                                                                           |
| Answer: (A)                                                                                                        |
| 118.                                                                                                               |
|                                                                                                                    |
| Minimum tube pitch recommended for shell and tube heat exchangers is about times the outside diameter of the tube. |
|                                                                                                                    |
| outside diameter of the tube.                                                                                      |
| outside diameter of the tube.  (A)                                                                                 |
| outside diameter of the tube.  (A)  1.25                                                                           |

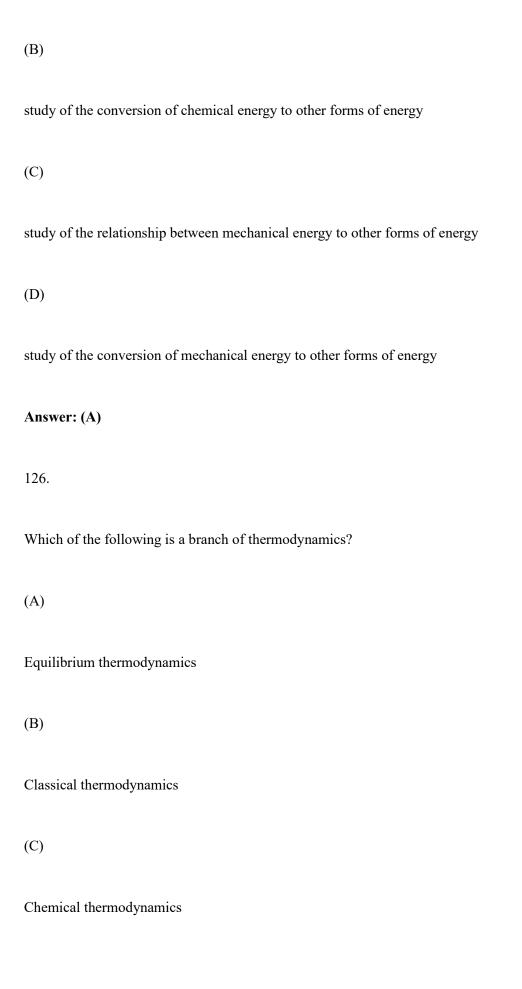
| 2.5                                          |         |
|----------------------------------------------|---------|
| (D)                                          |         |
| 3.5                                          |         |
| Answer: (A)                                  |         |
| 119.                                         |         |
| Brass valves are usually made for pipe sizes | inches. |
| (A)                                          |         |
| ≤1                                           |         |
| (B)                                          |         |
| ≤ 2                                          |         |
| (C)                                          |         |
| > 2.5                                        |         |
| (D)                                          |         |
| > 3.5                                        |         |
| Answer: (B)                                  |         |

| 120.                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------|
| An increase in the liquid resistance to interphase mass transfer and a resultant reduction in plate efficiency is caused by |
| (A)                                                                                                                         |
| An increase in liquid viscosity                                                                                             |
| (B)                                                                                                                         |
| An increase in relatived volatility for rectification columns                                                               |
| (C)                                                                                                                         |
| Decrease in gas solubility for absorbers                                                                                    |
| (D)                                                                                                                         |
| All of these                                                                                                                |
| Answer: (D)                                                                                                                 |
| 121.                                                                                                                        |
| Welded joint efficiency in the design of chemical process equipment is taken as                                             |
| (A)                                                                                                                         |

| 0.55                                                                                           |
|------------------------------------------------------------------------------------------------|
| (B)                                                                                            |
| 0.75                                                                                           |
| (C)                                                                                            |
| 0.85                                                                                           |
| (D)                                                                                            |
| 0.95                                                                                           |
| Answer: (C)                                                                                    |
| 122.                                                                                           |
| Apex angle of conical heads used in the bottom heads of chemical process equipments is usually |
| (A)                                                                                            |
| 30°                                                                                            |
| (B)                                                                                            |
| 45°                                                                                            |
| (C)                                                                                            |
| 60°                                                                                            |

| (D)                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------|
| 75°                                                                                                                |
| Answer: (C)                                                                                                        |
| 123.                                                                                                               |
| The minimum shell thickness for tank $\leq$ 15 metres diameter is limited to mm, for reasons of elastic stability. |
|                                                                                                                    |
| (A)                                                                                                                |
| 2                                                                                                                  |
| (B)                                                                                                                |
| 5                                                                                                                  |
| (C)                                                                                                                |
| 10                                                                                                                 |
| (D)                                                                                                                |
| 15                                                                                                                 |
| Answer: (B)                                                                                                        |

| 124.                                                              |
|-------------------------------------------------------------------|
| The retention time of material in a rotary dryer depends upon its |
| (A)                                                               |
| Rpm                                                               |
| (B)                                                               |
| Slope & length                                                    |
| (C)                                                               |
| Flights arrangement                                               |
| (D)                                                               |
| All of these                                                      |
| Answer: (D)                                                       |
| 125.                                                              |
| What is thermodynamics?                                           |
| (A)                                                               |
| study of the relationship between heat and other forms of energy  |



| (D)                                             |
|-------------------------------------------------|
| All of the mentioned                            |
| Answer: (D)                                     |
| 127.                                            |
| Which of the following is a thermodynamics law? |
| (A)                                             |
| Zeroth law of thermodynamics                    |
| (B)                                             |
| Faraday's Law of thermodynamics                 |
| (C)                                             |
| Ideal Gas Law of thermodynamics                 |
| (D)                                             |
| Boyle's Law of thermodynamics                   |
| Answer: (C)                                     |
| 128.                                            |

| Heat does not spontaneously flow from a colder body to a hotter one. Which of the following thermodynamics law states this? |
|-----------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                             |
| (A)                                                                                                                         |
| Zeroth law of thermodynamics                                                                                                |
| (B)                                                                                                                         |
| First law of thermodynamics                                                                                                 |
| (C)                                                                                                                         |
| Second law of thermodynamics                                                                                                |
| (D)                                                                                                                         |
| Third law of thermodynamics                                                                                                 |
| Answer: (C)                                                                                                                 |
| 129.                                                                                                                        |
| Which of the following is an application of thermodynamics?                                                                 |
| (A)                                                                                                                         |
| Refrigerators                                                                                                               |

| (B)                                                      |
|----------------------------------------------------------|
| Gas compressors                                          |
| (C)                                                      |
| Power plants                                             |
| (D)                                                      |
| All of the mentioned                                     |
| Answer: (C)                                              |
| 130.                                                     |
| Which of the following is a type of thermodynamic system |
| (A)                                                      |
| Open system                                              |
| (B)                                                      |
| Closed system                                            |
| (C)                                                      |
| Thermally isolated system                                |

| (D)                                                                    |
|------------------------------------------------------------------------|
| All of the mentioned                                                   |
| Answer: (D)                                                            |
| 131.                                                                   |
| Which of the following occurs without a change in the internal energy? |
| (A)                                                                    |
| Isochoric process                                                      |
| (B)                                                                    |
| Isenthalpic process                                                    |
| (C)                                                                    |
| Steady-state process                                                   |
| (D)                                                                    |
| None                                                                   |
| Answer: (C)                                                            |
| 132.                                                                   |

| Which of the following thermodynamic law gives the concept of enthalpy? |
|-------------------------------------------------------------------------|
| (A)                                                                     |
| First law of thermodynamics                                             |
| (B)                                                                     |
| Second law of thermodynamics                                            |
| (C)                                                                     |
| Third law of thermodynamics                                             |
| (D)                                                                     |
| Fourth law of thermodynamics                                            |
| Answer: (C)                                                             |
| 133.                                                                    |
| What is the value of the absolute thermodynamic temperature scale?      |
| (A)                                                                     |
| 3K                                                                      |
| (B)                                                                     |

| (C)                                                |
|----------------------------------------------------|
| 1K                                                 |
| (D)                                                |
| 4K                                                 |
| Answer: (B)                                        |
| 134.                                               |
| Which of the following follows the Carnot theorem? |
| (A)                                                |
| Heat engines                                       |
| (B)                                                |
| Gas turbine engines                                |
| (C)                                                |
| Gas compressors                                    |
| (D)                                                |

0K

| All of the mentioned                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Answer: (D)                                                                                                                                                                    |
| 135.                                                                                                                                                                           |
| If a piston/cylinder with a cross-sectional size of 0.01 m2 is resting on the stops, what should the water pressure be to lift the piston with an outside pressure of 100 kPa? |
| (A)                                                                                                                                                                            |
| 218kPa                                                                                                                                                                         |
| (B)                                                                                                                                                                            |
| 168kPa                                                                                                                                                                         |
| (C)                                                                                                                                                                            |
| 198kPa                                                                                                                                                                         |
| (D)                                                                                                                                                                            |
| 318kPa                                                                                                                                                                         |
| Answer: (C)                                                                                                                                                                    |
| 136.                                                                                                                                                                           |

| (A)                                    |
|----------------------------------------|
| a                                      |
| (B)                                    |
| an                                     |
| (C)                                    |
| the                                    |
| (D)                                    |
| no article                             |
| Answer: (C)                            |
| 137.                                   |
| Identify the Sentences:                |
| Don't tease him or he will attack you. |
|                                        |
| (A)                                    |
| simple                                 |

---- elephant is a vegetarian

| negative                                        |
|-------------------------------------------------|
| (C)                                             |
| complex                                         |
| (D)                                             |
| compound                                        |
| Answer: (D)                                     |
| 138.                                            |
| Find Sentence Pattern:                          |
| Find Senience Pattern:                          |
| The doctor advised him complete rest            |
|                                                 |
| The doctor advised him complete rest            |
| The doctor advised him complete rest  (A)       |
| The doctor advised him complete rest  (A)  SVOC |

(B)

| (D)                    |
|------------------------|
| SVOO                   |
| Answer: (D)            |
| 139.                   |
| New York is large city |
| (A)                    |
| a                      |
| (B)                    |
| an                     |
| (C)                    |
| the                    |
| (D)                    |
| no article             |

SVOA

Answer: (A)

| He was carrying a heavy load. |
|-------------------------------|
| (A)                           |
| simple                        |
| (B)                           |
| negative                      |
| (C)                           |
| compound                      |
| (D)                           |
| complex                       |
| Answer: (A)                   |
| 141.                          |
| Find Prepositions:            |
| She is good English.          |
|                               |
| (A)                           |

140.

Identify the Sentences:

| (B)                              |  |
|----------------------------------|--|
| about                            |  |
| (C)                              |  |
| at                               |  |
| (D)                              |  |
| for                              |  |
| Answer: (C)                      |  |
| 142.                             |  |
| Find out the Tense:              |  |
| I studied French at the college. |  |
| (A)                              |  |
| simple past                      |  |
| (B)                              |  |
| past perfect                     |  |
| (C)                              |  |

in

| present continuous                                               |
|------------------------------------------------------------------|
| (D)                                                              |
| present perfect                                                  |
| Answer: (A)                                                      |
| 143.                                                             |
| Fill in the blanks with Gerund: The boys were punished for late. |
|                                                                  |
| (A)                                                              |
| came                                                             |
| (B)                                                              |
| to come                                                          |
| (C)                                                              |
| to coming                                                        |
| (D)                                                              |
| coming                                                           |

| 144.                              |
|-----------------------------------|
| Select the odd one out            |
| (A)                               |
| Kitchenware                       |
| (B)                               |
| Chair                             |
| (C)                               |
| Sofa                              |
| (D)                               |
| Table                             |
| Answer: (A)                       |
| 145.                              |
| Are you attending reception today |
| (A).                              |

Answer: (D)

| a                                                |
|--------------------------------------------------|
| (B)                                              |
| an                                               |
| (C)                                              |
| the                                              |
| (D)                                              |
| no article                                       |
| Answer: (C)                                      |
| 146.                                             |
| Identify the Errors:                             |
| Are / you involved / in this project? / are you? |
| (A)                                              |
| are                                              |
| (B)                                              |
| you involved                                     |
| (C)                                              |

| (D)                    |
|------------------------|
| are you                |
| Answer: (D)            |
| 147.                   |
| Select the odd one out |
| (A)                    |
| Radium                 |
| (B)                    |
| Radio                  |
| (C)                    |
| Granite                |
| (D)                    |
| Dynamite               |
| Answer: (B)            |

in this project

| 148.                                                            |
|-----------------------------------------------------------------|
| Identify the Sentence:  Can you help me with a thousand rupees? |
| (A)                                                             |
| interrogative                                                   |
| (B)                                                             |
| negative                                                        |
| (C)                                                             |
| complex                                                         |
| (D)                                                             |
| compound                                                        |
| Answer: (A)                                                     |
| 149.                                                            |
| find out the Homophones:                                        |
| is a heavy metal.                                               |

| led                                     |  |
|-----------------------------------------|--|
| (B)                                     |  |
| lid                                     |  |
| (C)                                     |  |
| lead                                    |  |
| (D)                                     |  |
| none of these                           |  |
|                                         |  |
| Answer: (C)                             |  |
| Answer: (C) 150.                        |  |
| 150.                                    |  |
|                                         |  |
| 150. find out the Homophones:           |  |
| 150. find out the Homophones:           |  |
| find out the Homophones: him very well. |  |

(A)

| n | $^{\circ}$ | 77 | 7 |
|---|------------|----|---|
|   | ι,         | w  | 1 |
|   |            |    |   |

(C)

know

(D)

none

Answer: (C)