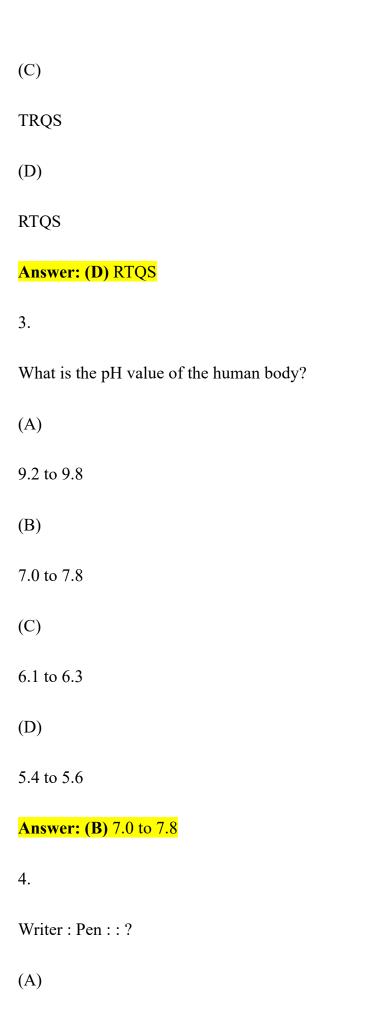
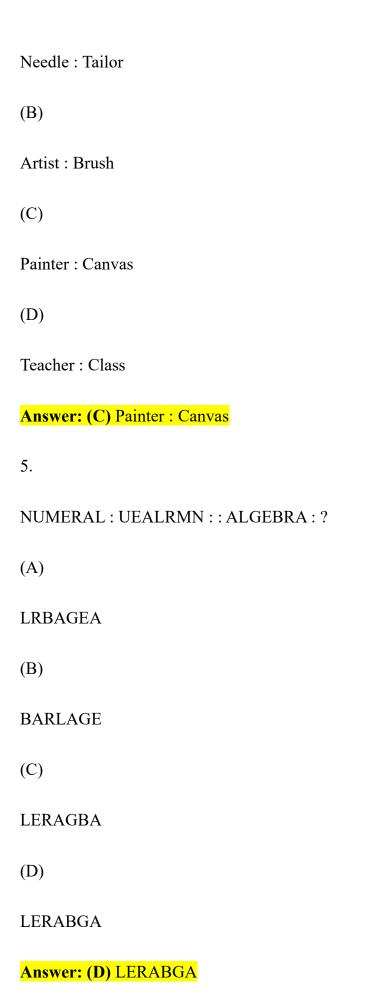
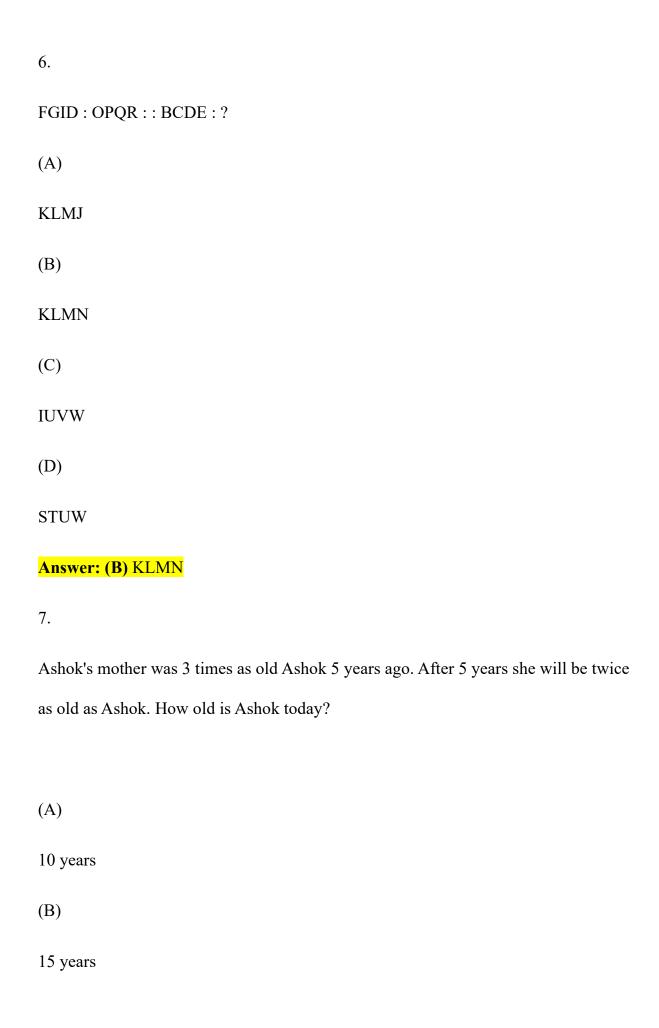
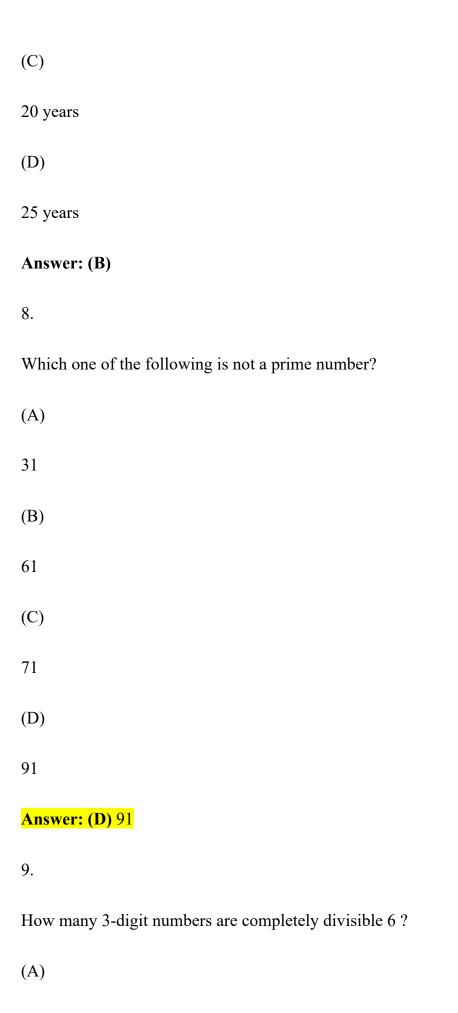
1.
From the given alternative words, select the word which cannot be formed using the
letters of the given word: Given: IMPASSIONABLE
(A)
IMPASSABLE
(B)
IMPOSSIBLE
(C)
IMPASSIVE
(D)
IMPASSION
Answer: (C) IMPASSIVE
2.
BDAC : FHEG : : NPMO : ?
(A)
RQTS
(B)
NTRC









149	
(B)	
150	
(C)	
151	
(D)	
166	
Answer: (B) 150	
10.	
If the number $5 * 2$ is divisible by 6, then $* = ?$	
(A)	
2	
(B)	
3	
(C)	
6	
(D)	
7	

Answer: (A) 2

11.

Two goods train each 500 m long, are running in opposite directions on parallel tracks. Their speeds are 45 km/hr and 30 km/hr respectively. Find the time taken by the slower train to pass the driver of the faster one.

(A)

12 sec

(B)

24 sec

(C)

48 sec

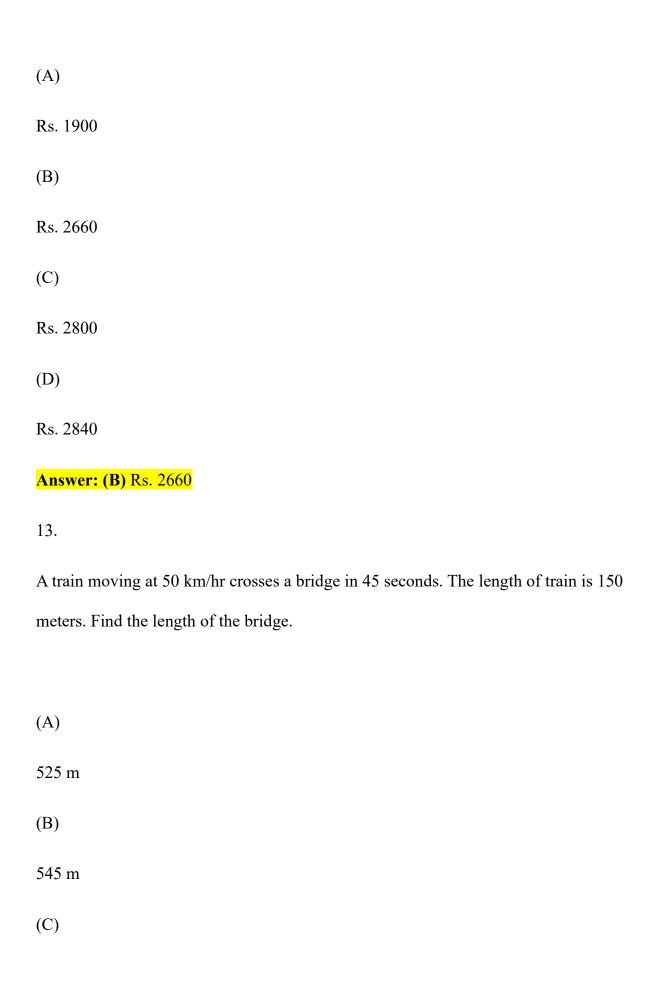
(D)

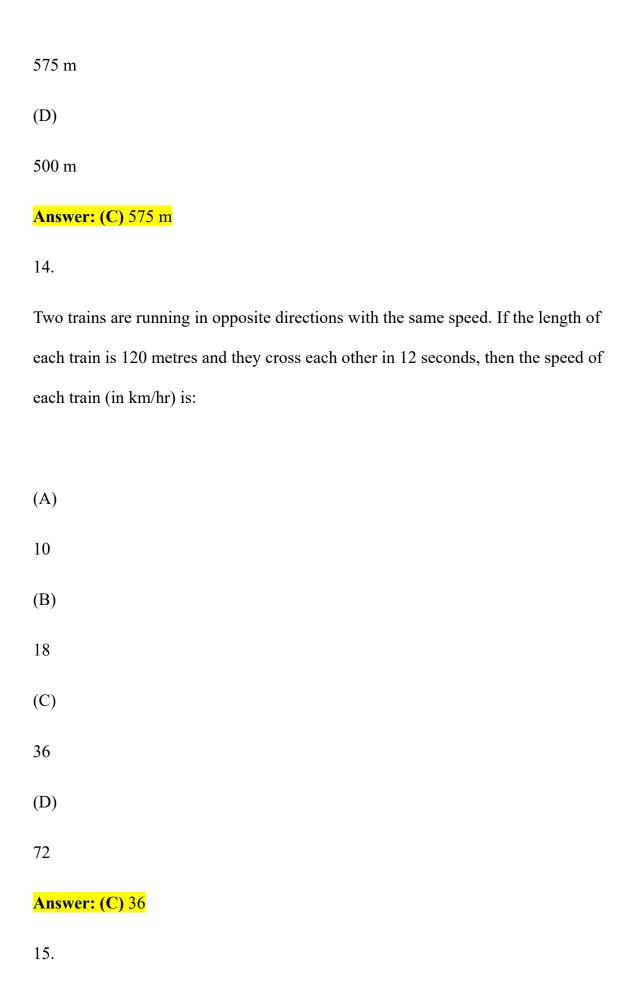
60 sec

Answer: (B) 24 sec

12.

A, B and C jointly thought of engaging themselves in a business venture. It was agreed that A would invest Rs. 6500 for 6 months, B, Rs. 8400 for 5 months and C, Rs. 10,000 for 3 months. A wants to be the working member for which, he was to receive 5% of the profits. The profit earned was Rs. 7400. Calculate the share of B in the profit.





"Identify the segment in the sentence which contains a grammatical error.
The man played the flute and led all the mouse out of the town."
(A)
all the mouse
(B)
the flute and led
(C)
out of the town
(D)
The man played
Answer: (A) all the mouse
16.
Choose the correctly spelt word.
(A)
Maneouvrable
(B)
Manoeuvrrable
(C)

Manoeuvrable
(D)
Manouverable
Answer: (C) Manoeuvrable
17.
"In the following sentence a word of phrase is written in bold. For each bold part four
word/phrases are listed below each sentence. Choose the word nearest in meaning to
bold part.
He is a good looking but insipid young man."
(A)
arrogant
(B)
unscrupulous
(C)
sick
(D)
lacking in spirit
Answer: (D) lacking in spirit

"Select the most appropriate option to improve the underlined segment in the given sentence. If there is no need to improve it, select 'No improvement'.

The place was not cold only and also damp."

(A)

No improvement

(B)

only cold not also

(C)

not only cold but also

(D)

not only cold and both

Answer: (C) not only cold but also

19.

"Select the correct direct form of the given sentence.

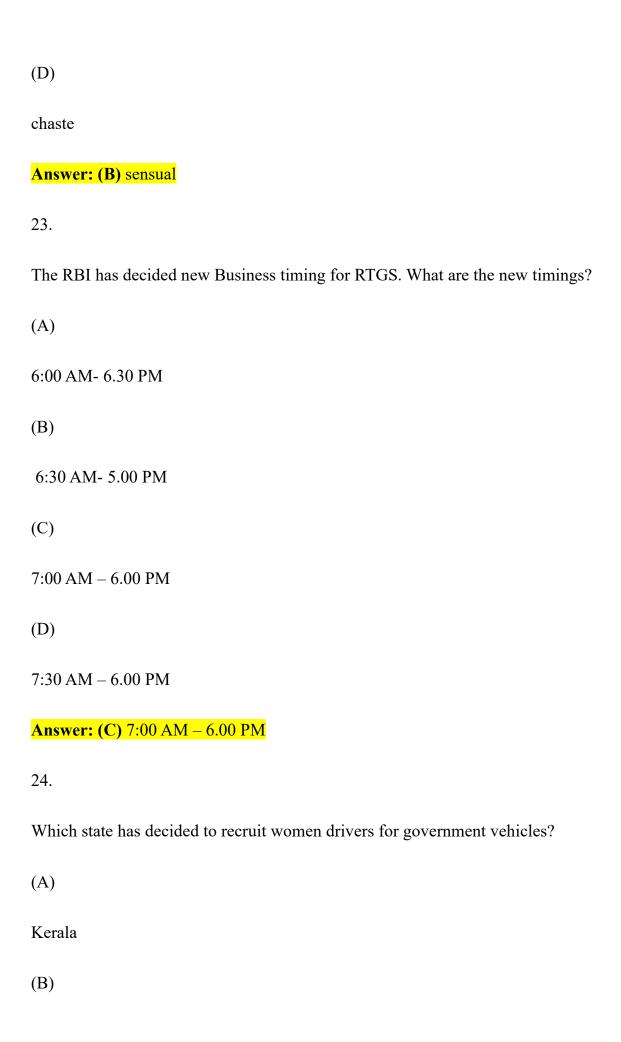
Saaransh said he had solved the crossword the previous day."

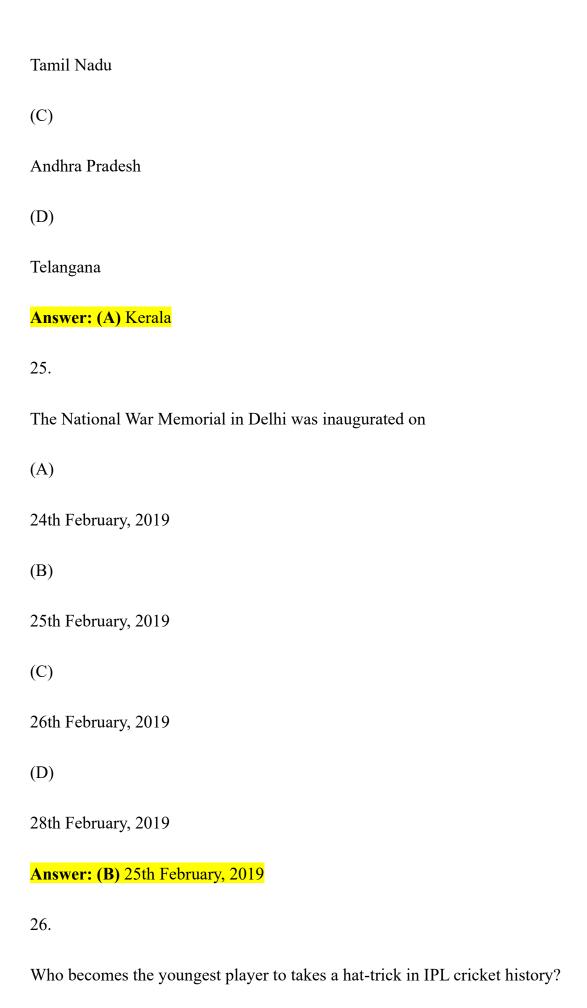
(A)

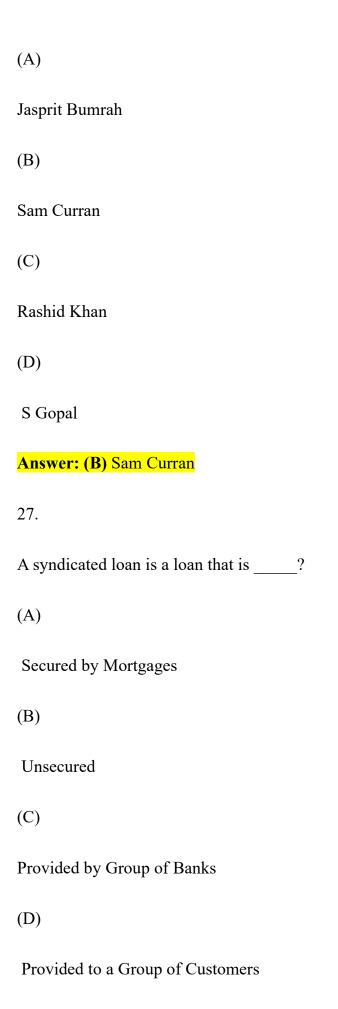
Saaransh said, "I solved the crossword yesterday."
(B)
Saaransh said, "He have solved the crossword yesterday."
(C)
Saaransh said, "I have solved the crossword the previous day."
(D)
Saaransh said, "He has solved the crossword the previous day."
Answer: (A) Saaransh said, "I solved the crossword yesterday."
20.
These medicines are for curing cold.
(A)
Proper
(B)
Real
(C)
Effective
(D)
Capable
Answer: (C) Effective

21.
Anita me of a girl I used to know.
(A)
remembers
(B)
recalls
(C)
recollects
(D)
reminds
reminds Answer: (D) reminds
Answer: (D) reminds 22. Select the synonym of carnal
Answer: (D) reminds 22. Select the synonym of carnal (A)
Answer: (D) reminds 22. Select the synonym of carnal (A) spiritual
Answer: (D) reminds 22. Select the synonym of carnal (A) spiritual (B)
Answer: (D) reminds 22. Select the synonym of carnal (A) spiritual

decent





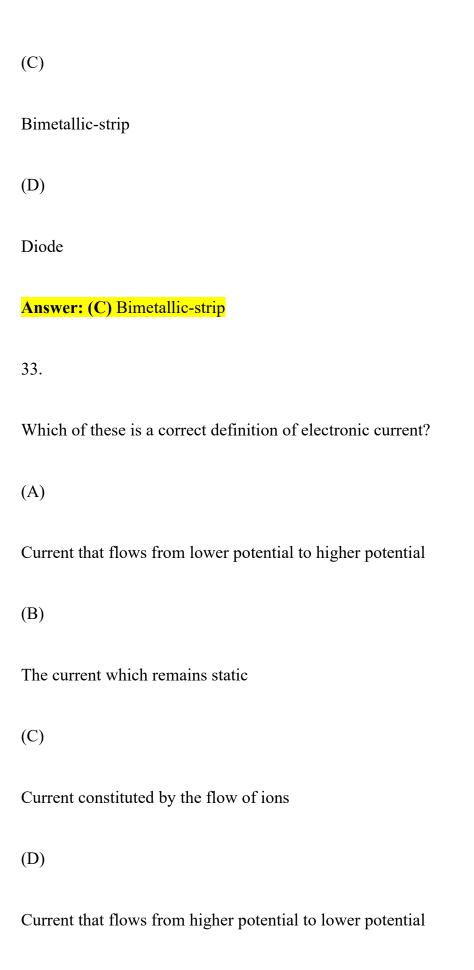


Answer: (C) Provided by Group of Banks
28.
What is the theme of World Photography Day 2023?
(A)
Landscapes
(B)
Dedicated to History
(C)
Understanding Clouds
(D)
Be Nice
Answer: (A) Landscapes
29.
The green planet in the solar system is?
(A)
Mars
(B)
Uranus
(C)

Venus
(D)
Earth
Answer: (B) Uranus
30.
Right to emergency medical aid is a
(A)
Legal Right
(B)
Illegal Right
(C)
Constitutional Right
(D)
Fundamental Right.
Answer: (D) Fundamental Right.
31.

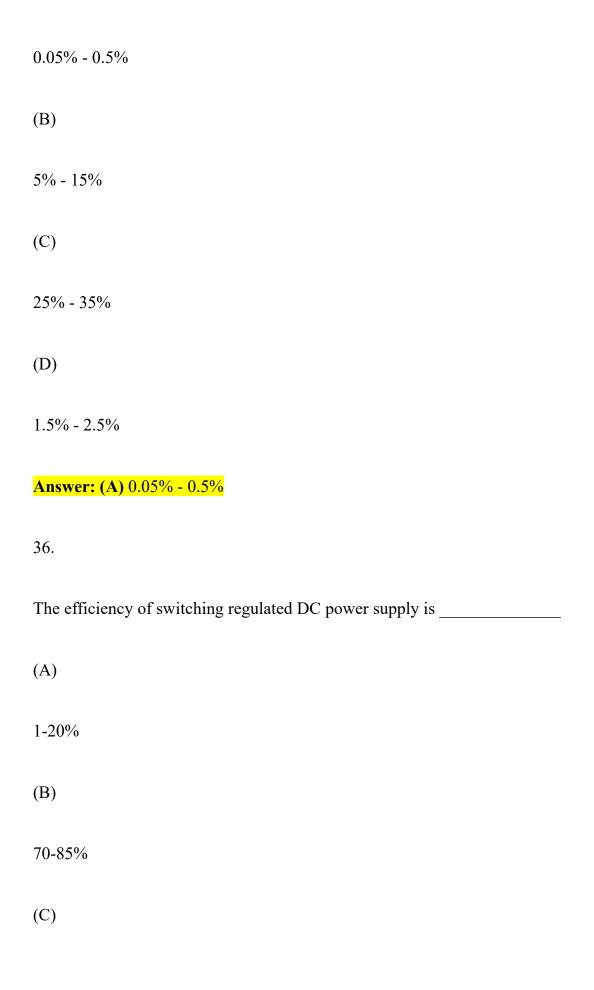
Which of the following is a part of SMPS component?

(A)
Output filter coil
(B)
MOSFET
(C)
Zener Diode
(D)
FET
Answer: (A) Output filter coil
32.
Automatic switching OFF function is accomplished in MCB by
(A)
Relay
(B)
Clutch



34. The circuit design of switching regulated power supplies is _____ (A) Complex (B) Moderately complex (C) Simple (D) Not possible Answer: (A) Complex 35. The load regulation of switching regulated DC power supply is from _____ (A)

Answer: (A) Current that flows from lower potential to higher potential



10-85%
(D)
10-20%
Answer: (B) 70-85%
37.
A Zener voltage regulator is used forload currents
(A)
High
(B)
Very High
(C)
Moderate
(D)
Small
Answer: (D) Small

Where square wave inverters are used?
(A)
Computers
(B)
TV receiver
(C)
DVD Players
(D)
General lighting
Answer: (D) General lighting
39.
How the backup time of UPS can be increased?
(A)
Increase the VA rating of UPS

(B)
Increase the AH capacity of battery
(C)
Decrease the AH capacity of battery
(D)
Maintain battery terminal voltage always 90% of rating
Answer: (B) Increase the AH capacity of battery
40.
Which term refers that the mass of a substance liberated from an electrolyte by one coloumb of electricity?
(A)
Electrolysis
(B)
Electro plating
(C)
Electro copying

(D)
Electro chemical equivalent
Answer: (D) Electro chemical equivalent
41.
The transmitter-receiver combination in the satellite is known as a
(A)
Relay
(B)
Repeater
(C)
Transponder
(D)
Duplexer
Answer: (C)Transponder

Why are VHF, UHF, and microwave signals used in satellite communication?
(A)
More bandwidth
(B)
More spectrum space
(C)
Are not diffracted by the ionosphere
(D)
Economically viable
Answer: (C) Are not diffracted by the ionosphere
43.
Which of the following is not a common use for radio waves in the VHF band?
(A)
FM radio broadcasting
(B)

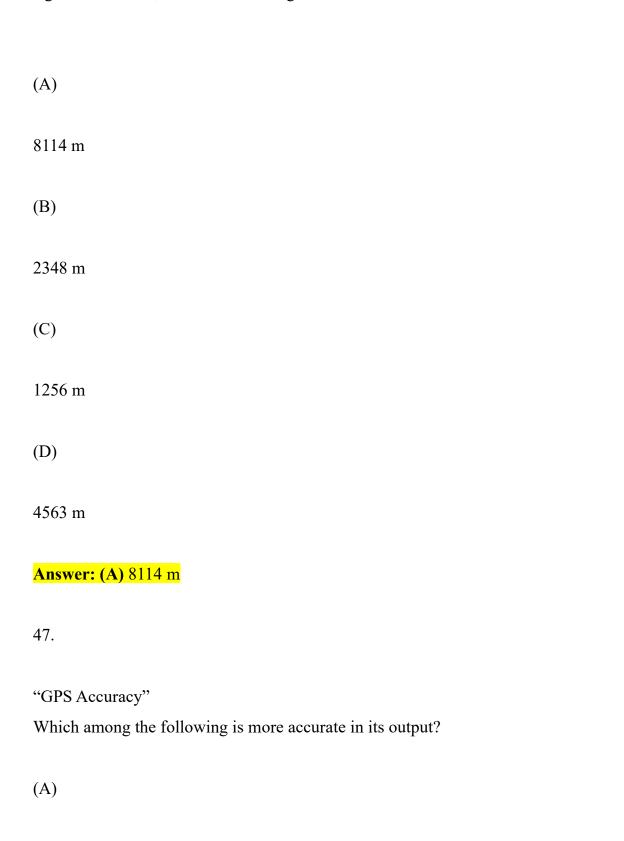
Walkie-talkie communication
(C)
Marine communications
(D)
Television broadcasting
Answer: (B) Walkie-talkie communication
44.
What is the full form of SSB modulation?
(A)
Shaky-sideband modulation
(B)
Separated-sideband modulation
(C)
Sorted-sideband modulation
(D)

Singe-sideband modulation
Answer: (D) Singe-sideband modulation
45.
The radar in which both transmission and reception is done using the same antenna are called:
(A)
Monostatic radar
(B)
Bistatic radar
(C)
Monopole radar
(D)
Dipole radar
Answer: (A) Monostatic radar

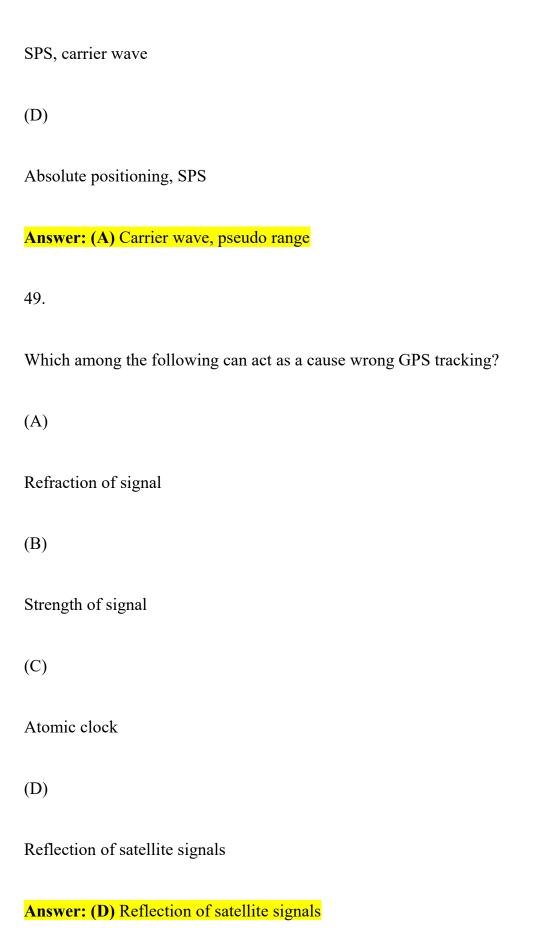
46.

Pulse radar operating at 10GHz frequency has an antenna with a gain of 28 dB and a transmitted power of 2kW. If it is desired to detect a target of cross section 12m, and the minimum detectable

signal is -90 dBm, the maximum range of the radar is:



Absolute positioning
(B)
Resection method
(C)
Modern GPS surveying
(D)
Conventional GPS method
Answer: (D) Conventional GPS method
48.
Which of the following indicates the correct set of classification for absolute positioning?
Which of the following indicates the correct set of classification for absolute
Which of the following indicates the correct set of classification for absolute positioning?
Which of the following indicates the correct set of classification for absolute positioning? (A)
Which of the following indicates the correct set of classification for absolute positioning? (A) Carrier wave, pseudo range



50.
The accuracy speed of the GPS depends on
(A)
Reflection of signal
(B)
Signal blockage
(C)
Refraction of signal
(D)
Position of satellite
Answer: (B) Signal blockage
51.
What is Artificial Intelligence?
(A)
Artificial Intelligence is a field that aims to make humans more intelligent

(B)
Artificial Intelligence is a field that aims to improve the security
(C)
Artificial Intelligence is a field that aims to develop intelligent machines
(D)
Artificial Intelligence is a field that aims to mine the data
Answer: (C) Artificial Intelligence is a field that aims to develop intelligent machines
52.
Who is the inventor of Artificial Intelligence?
(A)
Geoffrey Hinton
(B)
Andrew Ng
(C)
John McCarthy

(D)
Jurgen Schmidhuber
Answer: (C) John McCarthy
53.
Digital multimeter is used for
(A)
measuring AC and DC current, voltage and resistance
(B)
measuring AC current and voltage
(C)
measuring DC current and resistance
(D)
measuring AC voltage and resistance
Answer: (A) measuring (AC) and (DC) current, voltage and resistance
54.
Multimeter can be used as an ammeter by

(A)
connecting series resistances
(B)
making use of a transducer
(C)
making use of a transformer
(D)
connecting shunts
Answer: (D) connecting shunts
55.
An LCR meter is used to measure
An LCR meter is used to measure (A)
(A)

(C)
inductance
(D)
Voltage
Answer: (C) inductance
56.
Oscilloscope is
(A)
a ohmmeter
(B)
an ammeter
(C)
a voltmeter
(D)
a multimeter

Answer: a voltmeter
57.
How many pressure and current coil is present in Megger?
(A)
Two pressure coils and one current coil
(B)
Two pressure coils and two current coils
(C)
One pressure coil and one current coil
(D)
One pressure coil and two current coils
Answer: Two pressure coils and one current coil
58.
An induction type voltmeter are categorized into types?
(A)

Three
(C)
Four
(D)
Five
Answer: (A) Two
59.
An ammeter is a
(A)
Secondary instrument
(B)
Absolute instrument
(C)

Two

(B)

Recording instrument
(D)
Integrating instrument
Answer: (A) Secondary instrument
60.
In an ammeter the shunt resistance usually meter resistance
(A)
Equal to
(B)
Less than
(C)
Greater than
(D)
Of any value

Answer: (B) Less than
61.
Which of the following device can be used for measurement of frequency?
(A)
Voltmeter
(B) Ammeter
(C)
Stroboscope
(D)
Barometer
Answer: (C) Stroboscope
62.
A power factor meter has control springs
(A)

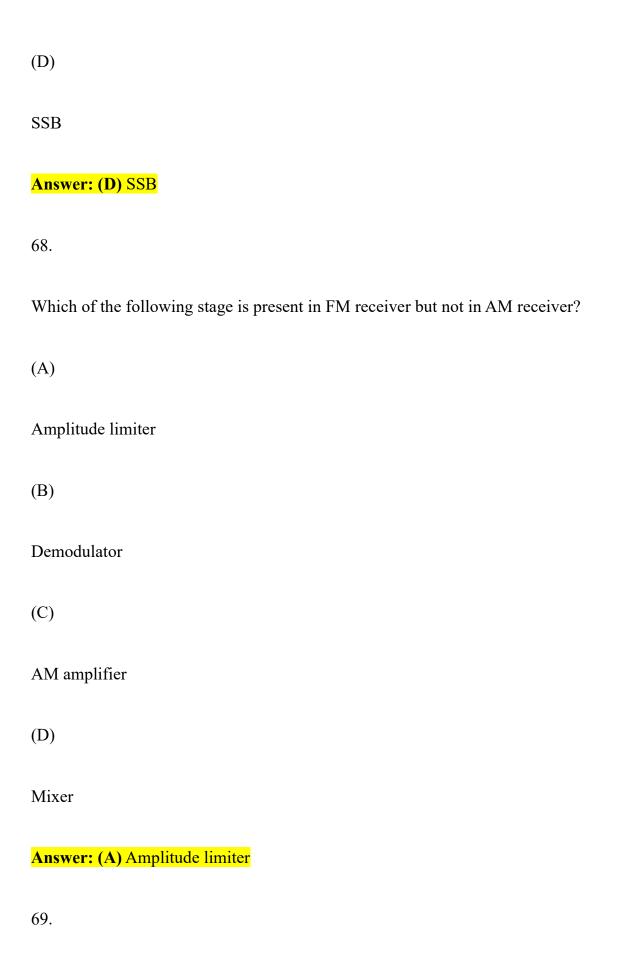
One
(B)
Two
(C)
Four
(D)
No
Answer: (D) No
63.
Which of the following method of measurement does a bridge circuit uses?
(A)
relative
(B)
comparison
(C)

absolute
(D)
differential
Answer: (B) comparison
64.
Identify the type of modulation where the frequency of the modulated wave is equal to that of the carrier wave.
(A)
Frequency modulation
(B)
Amplitude modulation
(C)
Carrier modulation
(D)
Phase modulation
Answer: (B) Amplitude modulation

65.		

Of the following which is the preferred modulation scheme for digital communication?
(A)
Pulse code modulation
(B)
Pulse amplitude modulation
(C)
Pulse position modulation
(D)
Pulse width modulation
Answer: (A) Pulse code modulation
66.
Which modulator is used for the generation of the DSB-SC signal?
(A)
Balanced modulator

(B)
Square law modulator
(C)
Armstrong phase modulator
(D)
Envelope detector
Answer: (A) Balanced modulator
67.
Which of the following requires the least bandwidth?
(A)
DSB SC
(B)
DSB
(C)
VSB



Baseband compression produces
(A)
a small range of frequencies from low to high
(B)
a small range of different phases
(C)
a small range of angles
(D)
a small range of amplitude
Answer: (D) a small range of amplitude
70.
Which of the following is not an advantage of digital modulation?
(A)
Greater noise immunity
(B)

Greater security
(C)
Easier multiplexing
(D)
Less bandwidth requirement
Answer: (D) Less bandwidth requirement
71.
Which has same probability of error?
(A)
BPSK and QPSK
(B)
BPSK and ASK
(C)
BPSK and PAM
(D)

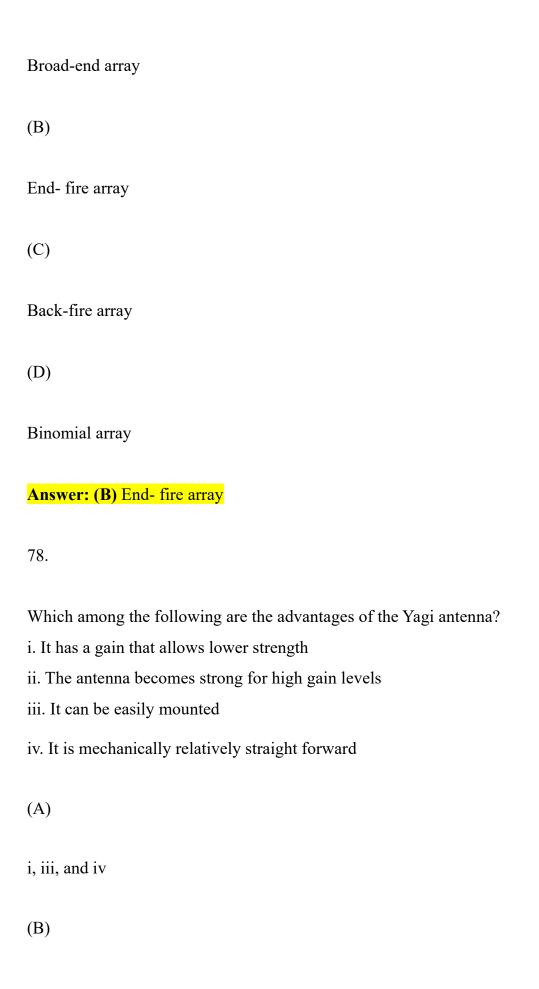
BPSK and QAM

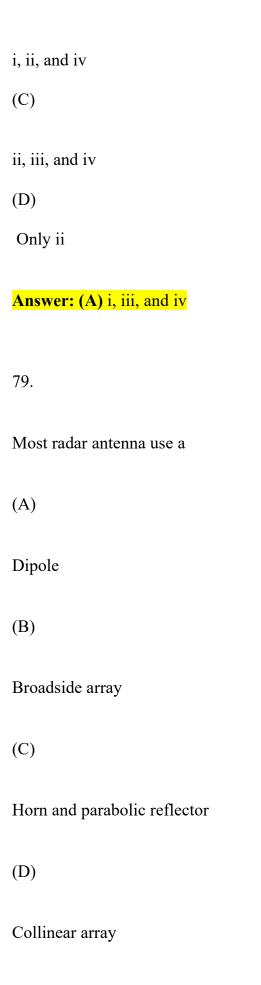
Answer: (C) BPSK and PAM
72.
Which of the following modulation schemes gives the maximum probability of error?
(A)
DBPSK
(B)
PSK
(C)
BFSK
(D)
ASK
Answer: (D) ASK
73.
is a type of digital modulation.
(A)

Amplitude modulation
(B)
Frequency modulation
(C)
Phase modulation
(D)
Frequency shift keying
Answer: (D) Frequency shift keying
74.
A video camera generates data at a rate of 5 Mbps. The data is channel coded at rate 1/3 and 8 PSK modulate(D) Which of the following statements is correct?
(A)
Information rate: 15 Mbps; Symbol rate: 5 Msps
(B)
Information rate: 5 Mbps; Symbol rate: 15 Msps
(C)

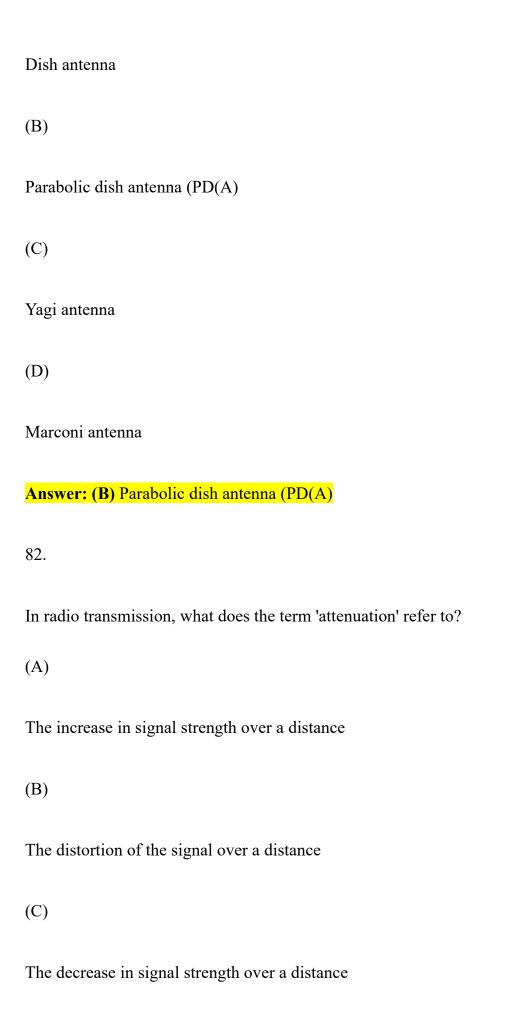
Information rate: 15 Mbps; Symbol rate: 15 Msps
(D)
Information rate: 5 Mbps; Symbol rate: 5 Msps
Answer: Information rate: 15 Mbps; Symbol rate: 5 Msps
Answer. Information rate. 15 Wrops, Symbol rate. 5 Wisps
75.
Which of the following is not true about VHF propagation?
(A)
Can penetrate building walls
(B)
Can travel long distances
(C)
Transmitting antennas are huge
(D)
Can be received indoors
Answer: (C) Transmitting antennas are huge

76.
Standard AM broadcast stations usually use what type of transmitting antenna
(A)
Log periodic
(B)
Driven collinear array
(C)
Marconi array
(D)
Yagi-Uda
Answer: (C) Marconi array
77.
Which array uses two half-wave dipoles spaced along with one-half wavelength apart?
(A)





Answer: (C) Horn and parabolic reflector
80.
The discone antenna is
(A)
A useful direction-finding antenna
(B)
Used as a radar receiving antenna
(C)
Circularly polarized like other circular antennas
(D)
Useful as VHF receiving antenna
Answer: (D) Useful as VHF receiving antenna
81.
Which type of antenna is used for the transmission of microwave of 4 GHz to 20 GHz
(A)



(D)
The stability of the signal over a distance
Answer: (C) The decrease in signal strength over a distance
83.
What is a common use of a Band Pass Filter in Radio Engineering?
(A)
It allows all frequencies to pass through
(B)
It allows only a specific range of frequencies to pass through
(C)
It blocks all frequencies from passing through
(D)
It amplifies all frequencies equally
Answer: (B) It allows only a specific range of frequencies to pass through
84.

What is the function of a modem?
(A)
Encryption and Decryption
(B)
Converts data to voice and vice-versa
(C)
Convert analog signals to digital and vice-versa
(D)
Serves as a hardware anti-virus
Answer: (C) Convert analog signals to digital and vice-versa
85.
RADAR is an sensor?
(A)
Electro-magnetic
(B)
Electric

(C)	
Magnetic	
(D)	
Static	
Answer: (A) Electro-magnetic	
86.	
Echoes are observed from	in Radars?
(A)	
Targets	
(B)	
Antennas	
(C)	
Repeaters	
(D)	
Systems	

Answer: (A)Targets
87.
Radars are devices?
(A)
Active Sensing
(B)
Passive Sensing
(C)
Static Sensing
(D)
Dynamic Sensing
Answer: (C) Static Sensing
88.
What should be placed at the initial receiver's stage?

(A)
Voltage Regulator
(B)
Current Regulator
(C)
Transistor Amplifier
(D)
Multiplexer
Answer: (C) Transistor Amplifier
89.
What frequency determines the signal transmitted by the Radar?
(A)
Pulse Reallocation
(B)
Pulse Retrieving

(C)
Pulse Repetition Frequency
(D)
Post Reallocation Frequency
Answer: (C) Pulse Repetition Frequency
90.
Unwanted component in the signal received at the Radars receiver is?
(A)
Receiver Noise
(B)
Transmitter Noise
(C)
Threshold Noise
(D)
Noise Power

Answer: (A) Receiver Noise
91.
How many types does a pulse radar have?
(A)
Four
(B)
Three
(C)
Two
(D)
One
Answer: (C) Two
92.
What principle is used in MTI Radar?
(A)

Flemming Effect
(B)
Doppler Effect
(C)
Hall Effect
(D)
Thevenin's Effect
Answer: (B) Doppler Effect
93.
What is utilized to detect targets that are non-stationary?
(A)
Basic Pulse Radar
(B)
Moving Target Indication Radar
(C)

Symmetric Radar
(D)
Discontinuous Wave Radar
Answer: (B) Moving Target Indication Radar
94.
Echo signal in FMCW radar is received by?
(A)
Transmitting Antenna
(B)
Oscillator
(C)
Receiving Antenna
(D)
Duplexer
Answer: (C) Receiving Antenna

The ability of an antenna to focus its radiated power in a certain direction is measured by which of the following property of the antenna?
(A)
Directivity
(B)
Impedance matching
(C)
Resonance
(D)
Answer: (A) Directivity
96.
A short monopole antenna is a type of?
(A)
A short monopole antenna is a type of resonating antenna that consists of many conducting elements

(B)
A short monopole antenna is a type of harmonic antenna that consists of two conducting elements
(C)
A short monopole antenna is a type of horizontal antenna that consists of a conducting element
(D)
A short monopole antenna is a type of vertical antenna that consists of a conducting element
Answer: (D) A short monopole antenna is a type of vertical antenna that consists of a conducting element.
97.
Name the region around an antenna where the electromagnetic waves it emits behave consistently and predictably?
(A)
Near field region
(B)
Far-field region

(C)		
Intensity field		
(D)		
Radiation field		
Answer: (B) Far-field	d region	
98.		
Which of the following	ng type of antenna has a directivity of 0 dB?	
(A)		
Horn antenna		
(B)		
General antenna		
(C)		
Patch antenna		
(D)		
Isotropic antenna		

Answer: (D) Isotropic antenna
99.
Which of the following formula is used to calculate the bandwidth of an antenna?
(A)
Bandwidth= Higher frequency* lower frequency
(B)
Bandwidth= Higher frequency+ lower frequency
(C)
Bandwidth= Higher frequency/ lower frequency
(D)
Bandwidth= Higher frequency- lower frequency
Answer: (D) Bandwidth= Higher frequency- lower frequency
100.
refers to the frequency where an antenna exhibits its maximum efficacy and radiation performance.
(A)

Quality factor
(B)
Fractional bandwidth
(C)
Resonant frequency
(D)
Cut off frequency
Answer: (C) Resonant frequency