



Railway Recruitment Board

Notations :

- Options shown in **green** color and with  icon are correct.
- Options shown in **red** color and with  icon are incorrect.

Question Paper Name: Junior Engineer 29th Aug Shift 3 Actual
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Junior Engineer

Group Number : 1
Group Id : 12
Group Maximum Duration : 0
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Group Marks: 150.0

Junior Engineer

Section Id : 12
Section Number : 1
Section type : Online
Mandatory or Optional: Mandatory
Number of Questions: 150
Number of Questions to be attempted: 150
Section Marks: 150.0

Sub-Section Number: 1
Sub-Section Id: 12
Question Shuffling Allowed : Yes

Question Number : 1 Question Id : 2101 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

An adiabatic wall is one which

- a. prevents thermal interaction
- b. permits thermal interaction
- c. encourage thermal interaction
- d. discourage thermal interaction

Options :



Question Number : 2 Question Id : 2102 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

An ideal gas at 27°C is heated at constant pressure till the volume becomes three times. The temperature of the gas will then be

- a. 81°C
- b. 900°C
- c. 627°C
- d. 927°C

Options :







Question Number : 3 Question Id : 2103 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The unit of a following parameter is not m^2/s

- a. Thermal diffusivity
- b. Kinematic viscosity
- c. Mass diffusivity
- d. Dynamic viscosity

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 4 Question Id : 2104 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The effectiveness of a fin will be maximum in an environment with

- a. Free convection
- b. Forced convection
- c. Radiation
- d. Convection and radiation

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 5 Question Id : 2105 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In SI engine for higher thermal efficiency

- a. Compression ratio should be high
- b. Heat liberation during combustion should be maximum
- c. Surface to volume ratio should be high
- d. Long flame travel distance

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 6 Question Id : 2106 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The stoichiometric air-fuel ratio by volume for combustion of carbon monoxide in air is

- a. 1.19
- b. 2.38
- c. 3.57
- d. 4.76

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 7 Question Id : 2107 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Increase in entropy of a system represents

- a. Increase in availability of energy
- b. Increase in temperature
- c. Decrease in pressure
- d. Degradation of energy

Options :





- 1.  a
- 2.  b
- 3.  c
- 4.  d

Question Number : 8 Question Id : 2108 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The main purpose of chaplets is

- a. To ensure directional solidification
- b. To provide efficient venting
- c. For aligning the mould boxes
- d. To support the cores

Options :





- 1.  a
- 2.  b
- 3.  c
- 4.  d

Question Number : 9 Question Id : 2109 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

In wire drawing process, the bright shining surface on the wire is obtained if one

- a. Is not using a lubricant
- b. Is using Low tooling cost
- c. Uses thick paste lubricant
- d. Use thin fluid lubricant

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 10 Question Id : 2110 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In the rolling process, roll separating force can be decreased by

- a. Reducing the roll diameter
- b. Increasing the roll diameter
- c. Providing backup rolls
- d. Increasing the friction between the rolls and the metal

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 11 Question Id : 2111 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Pinch effect in welding is the result of

- a. Expansion of gases in the arc
- b. Electromagnetic forces
- c. Electric force
- d. Surface tension of the molten metal

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 12 Question Id : 2112 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In arc welding D.C. reverse polarity is used to bear greater advantage in

- a. Overhead welding
- b. Flat welding of lap joints
- c. Edge welding
- d. Flat welding of butt joints

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d

Question Number : 13 Question Id : 2113 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The straight grades of cemented carbide cutting tool materials contain

- a. Tungsten carbide only
- b. Tungsten carbide and titanium carbide
- c. Tungsten carbide and cobalt
- d. Tungsten carbide and coal carbide

Options :

1.  a

2.  b

3.  c

4.  d

Question Number : 14 Question Id : 2114 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Gear cutting on a milling machine using an involute profile cutter is a

- a. Gear forming process
- b. Gear generating process
- c. Gear shaping process
- d. Highly accurate gear producing process

Options :

1.  a

2.  b

3.  c

4.  d





Question Number : 15 Question Id : 2115 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A body containing electrons less than its normal number, it is said to be

- a. neutral
- b. atom
- c. negatively charged
- d. positively charged

Options :





- 1.  a
- 2.  b
- 3.  c
- 4.  d

Question Number : 16 Question Id : 2116 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Electric current may be defined as

- a. Rate of transfer of electric charge
- b. Velocity of charge
- c. Capacity to store charges
- d. Charging of Battery

Options :





- 1.  a
- 2.  b
- 3.  c
- 4.  d

Question Number : 17 Question Id : 2117 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Mesh is a loop that contains..... loop(s) within it

- a. 1
- b. 2
- c. 4
- d. no

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 18 Question Id : 2118 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The emf per turn of a single phase 2200/220 V, 50 Hz transformer is 10 V. The number of primary turns are

- a. 22
- b. 10
- c. 220
- d. 50

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 19 Question Id : 2119 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Transformer on "No-Load" means

- a. there is no weight of transformer
- b. there are no losses in transformer
- c. there is no load on primary
- d. there is no load on secondary

Options :





- 1.  a
- 2.  b
- 3.  c
- 4.  d

Question Number : 20 Question Id : 2120 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

In electric machines, copper losses occur

- a. in rotor and stator windings
- b. in commutator
- c. due to high speed
- d. due to flux distortion

Options :





- 1.  a
- 2.  b
- 3.  c
- 4.  d

Question Number : 21 Question Id : 2121 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Armature is the Part of machine

- a. reciprocating
- b. static
- c. rotating
- d. vibrating

Options :





- 1.  a
- 2.  b
- 3.  c
- 4.  d

Question Number : 22 Question Id : 2122 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Good commutation means

- a. good sparking at the brushes
- b. excessive sparking at the brushes
- c. no sparking at the brushes
- d. half the normal sparking at the brushes

Options :





- 1.  a
- 2.  b
- 3.  c
- 4.  d

Question Number : 23 Question Id : 2123 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The operation of an induction motor is based on

- a. Lenz's Law
- b. Ampere's Law
- c. principle of mutual induction
- d. principle of self induction

Options :





- 1.  a
- 2.  b
- 3.  c
- 4.  d

Question Number : 24 Question Id : 2124 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The starter is used to

- a. produce back emf
- b. protect against overload
- c. limit the starting current
- d. limit the speed

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





For the above question, User had specified 'ignore' during keys upload.

Question Number : 25 Question Id : 2125 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

In Exclusive-OR gate, when output is zero, the inputs are

- a. 1,0
- b. 0,1
- c. 1,1
- d. 1,X

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 26 Question Id : 2126 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The semiconductors behave as..... at 0 K.

- a. semiconductor
- b. superconductor
- c. insulator
- d. conductor

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 27 Question Id : 2127 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The flow of electrons caused by variation in concentration is known as

- a. drift current
- b. diffusion current
- c. conventional current
- d. non-conventional current

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 28 Question Id : 2128 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

With the increase in junction temperature, reverse current of the P-N junction

- a. increases
- b. decreases
- c. remains same
- d. decreases upto a limit and then becomes constant

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d

Question Number : 29 Question Id : 2129 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The doping of a tunnel diode is approximatelytimes higher than a conventional diode

- a. 200
- b. 500
- c. 1000
- d. 2000

Options :

1.  a

2.  b

3.  c

4.  d

Question Number : 30 Question Id : 2130 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Transistors are analogous to

- a. Vaccum diode
- b. Varactor diode
- c. Vaccum triode
- d. tunnel diode

Options :

1.  a

2.  b

3.  c





4.  d

Question Number : 31 Question Id : 2131 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

What is the ripple 2 V on average of 50 V

- a. 0.02
- b. 100
- c. 0.04
- d. 25

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 32 Question Id : 2132 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Electric networks which permit unattenuated transmission of signals are called

- a. Rectifier
- b. Diode
- c. Transistor
- d. Filter

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 33 Question Id : 2133 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The conversion of decimal 0.0625 into its binary equivalent will be

- a. 0.001
- b. 0.1010
- c. 0.1011
- d. 0.0001

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 34 Question Id : 2134 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Commutative law states

- a. $A.B = B.A$
- b. $A.(B.C) = (A.B).C$
- c. $A+(B+C) = (A+B)+C$
- d. $A.(B+C) = A.B + A.C$

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 35 Question Id : 2135 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If the dynamic viscosity of a fluid is 0.5 poise and specific gravity is 0.5, then kinematic viscosity of that fluid in strokes is

- a. 0.25
- b. 0.50
- c. 1.0
- d. 2.0

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 36 Question Id : 2136 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The variation in the volume of a liquid with the variation of pressure is called its

- a. surface tension
- b. compressibility
- c. capillarity
- d. viscosity

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 37 Question Id : 2137 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following is not a PERT event

- a. Site investigation started
- b. Sessional work completed
- c. Bus starts from Jaipur
- d. Class is being attended

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 38 Question Id : 2138 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The ratio between void ratio (e), degree of saturation (s), water content (w), and specific gravity of solids (G), is given by

- a. $e+s=w+G$
- b. $e \times s=w \times G$
- c. $e/s = w/G$
- d. $(s+e)/w = (G+e)/s$

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d

Question Number : 39 Question Id : 2139 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The fundamental principle of surveying is to work from the

- a. whole to the part
- b. part to the whole
- c. lower level to higher level
- d. higher level to lower level

Options :



Question Number : 40 Question Id : 2140 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The error in measured length due to sag of chain or tape is known as

- a. positive error
- b. negative error
- c. compensating error
- d. instrumental error

Options :







Question Number : 41 Question Id : 2141 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The coefficient of volume compressibility is

- a. directly proportional to the void ratio
- b. inversely proportional to the void ratio
- c. directly proportional to the coefficient of compressibility
- d. inversely proportional to the coefficient of compressibility

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 42 Question Id : 2142 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The ratio of transverse strain to the longitudinal strain under an axial load is known as

- a. tangent modulus of elasticity
- b. bulk modulus of elasticity
- c. modulus of rigidity
- d. Poisson's ratio

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 43 Question Id : 2143 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In the conventional pre-stressing, the diagonal tension in concrete

- a. increases
- b. decreases
- c. does not change
- d. may increase or decrease

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 44 Question Id : 2144 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A channel section consists of

- a. two webs
- b. two flanges
- c. two webs and two flanges
- d. one web and two flanges

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 45 Question Id : 2145 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

For making spiral staircases, ideal material is

- a. pig iron
- b. cast iron
- c. wrought iron
- d. steel

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 46 Question Id : 2146 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

On the basis of durability test, Forest Research Institute of India, Dehradun, a tree is highly durable if its average life is more than

- a. 5 years
- b. 10 years
- c. 15 years
- d. 20 years

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 47 Question Id : 2147 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Current density has the dimensions

- a. IL
- b. IL^{-2}
- c. IL^{-3}
- d. I^2L^{-2}

Options :





- 1.  a
- 2.  b
- 3.  c
- 4.  d

Question Number : 48 Question Id : 2148 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which one of the following effects is used in measuring power?

- a. Seeback
- b. Ferrari
- c. Induction
- d. Hall

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d

Question Number : 49 Question Id : 2149 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Insertion of a dielectric material between the plates of an air capacitor

- a. increases the capacitance
- b. decreases capacitance
- c. has no effect an capacitance
- d. increases breakdown voltage

Options :

1.  a

2.  b

3.  c

4.  d

Question Number : 50 Question Id : 2150 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The current through the coil of an electromagnet is doubled. The magnetic field around the coil

- a. is halved
- b. is doubled
- c. becomes four times
- d. remains the same

Options :

1.  a

2.  b

3.  c

4.  d

Question Number : 51 Question Id : 2151 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The function of shunt in an ammeter is to

- a. by pass the current
- b. increase sensitivity of meter
- c. increase resistance of meter
- d. It has no use

Options :

1.  a

2.  b

3.  c

4.  d

Question Number : 52 Question Id : 2152 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In surface waters, the presence of taste and odour due to dissolved gases may be removed by

- a. filtration
- b. coagulation
- c. aeration
- d. disinfection

Options :

1.  a

2.  b

3.  c

4.  d

Question Number : 53 Question Id : 2153 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In the determination of alkalinity, 1 ml of 0.02 N sulphuric acid will neutralize

- a. 10 mg of alkalinity as CaCO_3
- b. 1 mg of alkalinity as CaCO_3
- c. 0.1 mg of alkalinity as CaCO_3
- d. 0.01 mg of alkalinity as CaCO_3

Options :

1.  a

2.  b

3.  c

4.  d

Question Number : 54 Question Id : 2154 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The amount of oxygen required to decompose the organics under strong acidic conditions is called

- a. chemical oxygen demand
- b. biochemical oxygen demand
- c. biological oxygen demand
- d. theoretical oxygen demand

Options :

1.  a

2.  b

3.  c

4.  d

Question Number : 55 Question Id : 2155 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The photochemical smog is

- a. criteria pollutant
- b. primary pollutant
- c. secondary pollutant
- d. carcinogenic pollutant

Options :

1.  a

2.  b

3.  c

4.  d

Question Number : 56 Question Id : 2156 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The A - weighted scale covers sounds of frequencies from

- a. 800 to 3000 HZ
- b. 500 to 2000 HZ
- c. 1000 to 3000 HZ
- d. 1200 to 4000 HZ

Options :

1.  a

2.  b

3.  c

4.  d

Question Number : 57 Question Id : 2157 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The rain water turned acidic when its pH falls below

a. 7.0

b. 6.5

c. 5.6

d. 5.2

Options :

1.  a

2.  b

3.  c

4.  d

Question Number : 58 Question Id : 2158 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

If a symbol is erased from a memory cell as a consequence of reading, then the readout is said to be

a. Non-volatile

b. Volatile

c. Destructive

d. Non-destructive

Options :

1.  a

2.  b

3.  c

4.  d

Question Number : 59 Question Id : 2159 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which of the following device is used to recognize a pre-specified type of mark made by pencil or pen?

- a. Bar-Code Reader
- b. OCR
- c. Scanner
- d. OMR

Options :

1.  a

2.  b

3.  c

4.  d

Question Number : 60 Question Id : 2160 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Both EPROM and EEPROM are

- a. Sequential access memory
- b. Random access memory
- c. Volatile memory
- d. Destructive memory

Options :

1.  a

2.  b

3.  c

4.  d





Question Number : 61 Question Id : 2161 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The Unix operating system is written in

- a. C
- b. C++
- c. Pascal
- d. Fortran

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 62 Question Id : 2162 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The octal representation of the binary number $(1101010.01)_2$ is

- a. $(152.2)_8$
- b. $(152.1)_8$
- c. $(650.2)_8$
- d. $(650.1)_8$

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 63 Question Id : 2163 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Considering X and Y as binary variables, the Boolean expression $XY + X'Y$ is equivalent to

- a. X
- b. 1
- c. 0
- d. Y

Options :





- 1.  a
- 2.  b
- 3.  c
- 4.  d

Question Number : 64 Question Id : 2164 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which of the following takes one statement of a high-level language program at a time and translate it into machine instruction, which is immediately executed?

- a. Assembler
- b. Compiler
- c. Interpreter
- d. Loader

Options :





- 1.  a
- 2.  b
- 3.  c
- 4.  d

Question Number : 65 Question Id : 2165 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which of the following is a database management system?

- a. MS-Word
- b. MS-Excel
- c. MS-PowerPoint
- d. MS-Access

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 66 Question Id : 2166 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following is not an application layer protocol?

- a. HTTP
- b. IP
- c. TELNET
- d. FTP

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 67 Question Id : 2167 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Netscape Navigator is a

- a. Network layer protocol
- b. Presentation layer protocol
- c. Web browser
- d. Web search engine

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 68 Question Id : 2168 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Top view of a triangular plane appears as a line and its front view as triangle of original size. The plane is:

- a. perpendicular to HP and parallel to VP,
- b. perpendicular to VP and parallel to HP,
- c. Parallel to HP and VP both and perpendicular to PP,
- d. Inclined to HP and VP both.

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d

Question Number : 69 Question Id : 2169 Question Type : MCQ Option Shuffling : No





Correct : 1.0 Wrong : 0.33

The bolt shown in the following figure represents a:



- a. Square bolt,
- b. T-headed bolt,
- c. Hook bolt,
- d. Eye bolt.

Options :





- 1.  a
- 2.  b
- 3.  c
- 4.  d

Question Number : 70 Question Id : 2170 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

On a drawing 10 cm length represents an actual distance of 1 m. The R.F. of the scale is:

- a. 10
- b. 100
- c. $\frac{1}{10}$
- d. $\frac{1}{100}$

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 71 Question Id : 2171 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A string is wound over a circular disc. It is now unwound with its “free end” keeping it remain tight and tangent to the disc. The curve traced by the “free end” is

- a. Spiral
- b. Involute
- c. Cycloid
- d. Epicycloid

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 72 Question Id : 2172 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

An isometric projection plane is one which is inclined to the three orthogonal planes at:

- a. 30°
- b. 60°
- c. 15°
- d. equally

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 73 Question Id : 2173 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A bullet of mass m kg is fired horizontally with a velocity v m/s from a gun of mass $100m$ kg. The recoil velocity of the gun is

- a. v m/s
- b. $-v$ m/s
- c. $(v/100)$ m/s
- d. $-(v/100)$ m/s .

Options :





- 1.  a
- 2.  b
- 3.  c
- 4.  d

Question Number : 74 Question Id : 2174 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Let g m/s² be the acceleration due to gravity at a place. If mass and radius of the earth are reduced to half of its value, the weight of 1 kg object will become

- a. $0.5gN$
- b. $1gN$
- c. $2gN$
- d. $4gN$

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d

Question Number : 75 Question Id : 2175 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The kinetic energy of an object of mass m is twice the kinetic energy of object B of mass $2m$. Let v_A and v_B represent the velocity of object A and B, respectively. Then v_A/v_B is

- a. $1/2$
- b. 1
- c. 2
- d. 4.

Options :

1.  a

2.  b

3.  c

4.  d

Question Number : 76 Question Id : 2176 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

. When a sound wave travels in a medium, it creates

- a. compressions and rarefactions alternatively
- b. compressions only
- c. rarefactions only
- d. few successive regions of compressions and then few successive regions of rarefactions.

Options :

1.  a

2.  b

3.  c

4.  d





Question Number : 77 Question Id : 2177 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

An object is placed before a convex mirror. The image is

- a. real
- b. virtual
- c. may be real or virtual depending upon distance of the object from the mirror.
- d. magnified.

Options :

1.  a
2.  b
3.  c
4.  d





Question Number : 78 Question Id : 2178 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A current of 0.1 A flows towards left in a conductor. The number of electrons passing per second through any cross section of the conductor and their direction is about

- a. 6×10^{17} towards right
- b. 6×10^{17} towards left
- c. 6×10^{18} towards right
- d. 6×10^{18} towards left.

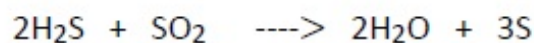
Options :

1.  a
2.  b
3.  c
4.  d

Question Number : 79 Question Id : 2179 Question Type : MCQ Option Shuffling : No



Correct : 1.0 Wrong : 0.33

Which one of the following is correct concerning the reaction?



- a. H_2S is reduced
- b. H_2S is oxidized
- c. SO_2 is a reducing agent
- d. H_2S is an oxidizing agent

Options :

1.  a
2.  b

3.  c

4.  d

Question Number : 80 Question Id : 2180 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Conversion of a solid directly to a gaseous state is known as

- a. Sublimation
- b. Evaporation
- c. Diffusion
- d. Liquefaction

Options :

1.  a

2.  b

3.  c

4.  d

Question Number : 81 Question Id : 2181 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The solution of a substance 'A' turns red litmus blue. Which one of the following is the most appropriate pH range in which the substance 'A' will be found?

- a. 0 –less than 6
- b. 6 –less than 12
- c. 7 – less than 13
- d. 7- less than 14

Options :

1.  a

2.  b

3.  c





4.  d

Question Number : 82 Question Id : 2182 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which one of the following sets of elements is arranged in correct order of their increasing electro negativity?

- a. S O N P
- b. S P Si Al
- c. I Br Cl F
- d. Mg Na K Ca

Options :





- 1.  a
- 2.  b
- 3.  c
- 4.  d

Question Number : 83 Question Id : 2183 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which one of the following is the molecular formula of n- hexyne?

- a. C_6H_{14}
- b. C_6H_{12}
- c. C_6H_{10}
- d. C_6H_8

Options :





- 1.  a
- 2.  b
- 3.  c
- 4.  d

Question Number : 84 Question Id : 2184 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Malleability is the property of metals

- a. to be drawn into wires
- b. to be converted into sheets
- c. to conduct electricity
- d. to conduct heat

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 85 Question Id : 2185 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

HIV, the cause of AIDS is

- a. a bacterium
- b. a virus
- c. a protozoan
- d. a poisonous bug

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d

Question Number : 86 Question Id : 2186 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In a quiz, the requirements for photosynthesis were mentioned as

A) Solar radiation B) A Pigment C) An Atmospheric gas D) A pH neutral chemical compound

Which out of A, B,C,D meant Chloroplast and Water?

- a. A and B
- b. B and C
- c. D and A
- d. B and D

Options :

1.  a

2.  b

3.  c

4.  d

Question Number : 87 Question Id : 2187 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In human beings, exchange of gases occurs between lungs and blood at

- a. Trachea
- b. Bronchi
- c. Alveoli
- d. Pleura

Options :

1.  a

2.  b

3.  c

4.  d

Question Number : 88 Question Id : 2188 Question Type : MCQ Option Shuffling : No





Correct : 1.0 Wrong : 0.33

In the food chain given below at which Trophic level is the Secondary consumer?

Grass → Grasshopper → Frog → Snake → Hawk

- a. First
- b. Second
- c. Third
- d. Fourth

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 89 Question Id : 2189 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Once mosquitoes were eradicated by DDT. Now they are resistant to DDT. This is an example of

- a. Adaptation
- b. Natural Selection
- c. Recombination
- d. Mutation

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 90 Question Id : 2190 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Deficiency of a hormone causes the disorder Diabetes mellitus. Which endocrine gland secretes this hormone?

- a. Thyroid
- b. Pituitary
- c. Pancreas
- d. Adrenal

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 91 Question Id : 2191 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Let x be the greatest number that divides 3739, 2270 and 6677 leaving the same remainder in each case. The sum of digits of x is

- a. 9
- b. 12
- c. 18
- d. 20

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d

Question Number : 92 Question Id : 2192 Question Type : MCQ Option Shuffling : No





Correct : 1.0 Wrong : 0.33

Let $a=2^5 \times 7^4 \times (13)^5$, $b=2^4 \times 7^5 \times (13)^4$, $c=2^6 \times 7^3 \times (13)^4$ and $d=2^7 \times 7^2 \times (13)^6$

Then LCM of a, b, c and d is

- a. $2^6 \times (91)^5$
- b. $52 \times (182)^5$
- c. $(13)^6 \times (14)^7$
- d. $52 \times (182)^4$

Options :

1.  a
2.  b
3.  c
4.  d





Question Number : 93 Question Id : 2193 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The tax on a commodity is diminished by 20% and thereby the consumption increase by 25%. The increase or decrease percent in the revenue derived from it is

- a. 5 % decrease
- b. 5 % increase
- c. 2 % increase
- d. no increase or decrease

Options :

1.  a
2.  b
3.  c
4.  d




Question Number : 94 Question Id : 2194 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

$A : B = \frac{1}{2} : \frac{1}{3}$, $B : C = \frac{1}{4} : \frac{1}{5}$ and $C : D = \frac{1}{6} : \frac{1}{7}$, then A: D is

- a. 7:2
- b. 35:16
- c. 7:6
- d. 3:2

Options :

1.  a
2.  b
3.  c

4.  d

Question Number : 95 Question Id : 2195 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The ratio of two numbers is 4:3. If each number is increase by 6, then their ratio becomes 5:4. The sum of the numbers exceeds their difference by

- a. 24
- b. 30
- c. 36
- d. 42

Options :

1.  a

2.  b

3.  c

4.  d

Question Number : 96 Question Id : 2196 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The capacities of two vessels are in the ratio 3:5. The first vessel contains acid and water in the ratio 5:1 whereas the other one contains acid and water in the ratio of 4:1. If the contents of these vessels are emptied into another vessel, the ratio of acid and water in it will be

- a. 12:7
- b. 12:5
- c. 13:3
- d. 13:5

Options :

1.  a

2.  b

3.  c

4.  d





Question Number : 97 Question Id : 2197 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A mixture of 180 litres of spirit and water contains 25 % water. How much water must be added to it to increase the percentage of water to 40?

- a. 15
- b. 18
- c. 20
- d. 45

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 98 Question Id : 2198 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A sum of Rs.61800 is to be paid back in two equal annual instalments. How much is each instalment, if the rate charged is 6 % per annum, compounded annually?

- a. Rs.30900
- b. Rs.31800
- c. Rs.32908
- d. Rs.33708

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 99 Question Id : 2199 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Two equal sums are lent at the same time at 6% and 5% simple interest respectively. The first is received 2 years earlier than the second, and the amount in each case is Rs.4800. Each sum is of Rs.

- a. 2000
- b. 2500
- c. 3000
- d. 4000

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 100 Question Id : 2200 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The marked price of a bed is Rs. 9575. A shopkeeper allows a discount of 12 % on its marked price and still gains 10%. The difference (in Rs.) of the marked price and cost price of the bed is

- a. 1915
- b. 1820
- c. 1718
- d. 866

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d



Question Number : 101 Question Id : 2201 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Anu bought two articles for Rs.2150 each. She sold one at a loss of 8 % . If she had a gain of Rs.1230 on the whole transaction, the selling price of second article is Rs.x more than the selling price of the first one. The value of x is

- a. 1478
- b. 1574
- c. 2150
- d. 1978

Options :

- 1.  a
- 2.  b

3.  c

4.  d

Question Number : 102 Question Id : 2202 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A steamer goes downstream and covers the distance between two ports in 4 hours while it covers the same distance upstream is 5 hours. If the speed of the stream is 2 km/hour, the speed of the steamer in still water, in km/h , is

- a. 16
- b. 18
- c. 20
- d. 22

Options :

1.  a

2.  b

3.  c

4.  d

Question Number : 103 Question Id : 2203 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A person has to cover a distance of 160 km in 8 hours. If he covers half of the journey in $\frac{3}{4}$ of the time, what must be his speed (km/hour) to cover the remaining distance in the remaining time?

- a. 30
- b. 35
- c. 40
- d. 42

Options :

1.  a

2.  b

3.  c

4.  d





Question Number : 104 Question Id : 2204 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A can do a piece of work in 15 days. He did it for 3 days and was then joined by B. The work lasted for 11 days altogether. In how many days could B alone do the same work?

- a. 14
- b. 28
- c. 30
- d. 32

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 105 Question Id : 2205 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

6 men and 8 women can do a piece of work in 10 days while 26 men and 48 women can do the same work in 2 days. 15 men and 20 women will do the same work in days

- a. 2
- b. 3
- c. 4
- d. 5

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 106 Question Id : 2206 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Visitors to a show were charged Rs.150 each on the first day, Rs.75 each on the second day and Rs.50 each on the third day. Total attendance on those three days were in the ratio of 3:4:13, The average charge per person for the whole show was

- a. Rs.90.16
- b. Rs.80.50
- c. Rs.75
- d. Rs.70

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 107 Question Id : 2207 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The average age of 20 boys and x girls is 11.6 years. The average age of boys is 11 years and that of girls is 12 years. The ratio of the number of girls to that of boys is

- a. 3:2
- a. 2:3
- b. 1:2
- c. 2:1

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 108 Question Id : 2208 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If the equation $(k-12)x^2 + 2(k-12)x + 2 = 0$ has real and equal roots, then the sum of the possible values of k is

- a. 12
- b. 14
- c. 22
- d. 26

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 109 Question Id : 2209 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The ratio of the sum and product of the roots of $ax^2 - 2bx + c = 0$, ($a, b, c > 0$) is

- a. $2b:c$
- b. $2c:b$
- c. $2a:b$
- d. $2b:a$

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d

Question Number : 110 Question Id : 2210 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The expression $x^4 + 2x^3 - 6x^2 - 14x - 7$ is factored as

- a. $(x+1)(x+1)(x^2-7)$
- b. $(x-1)(x-1)(x^2+7)$
- c. $(x-1)(x+1)(x^2+7)$
- d. $(x-1)(x-1)(x^2-7)$

Options :

- 1.  a

2.  b

3.  c

4.  d

Question Number : 111 Question Id : 2211 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

One of the factors of $x(3x+2)(x-2)(3x-4)-21$ is

- a. $3x+7$
- b. $x-1$
- c. $3x-7$
- d. $3x^2+4x+3$

Options :

1.  a

2.  b

3.  c

4.  d

Question Number : 112 Question Id : 2212 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

If the sum of first n terms of an arithmetic progression is $3n^2 + 2n$, then its 10^{th} term is

- a. 45
- b. 59
- c. 110
- d. 320

Options :

1.  a

2.  b

3.  c





4.  d

Question Number : 113 Question Id : 2213 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Fourth term of an infinite geometric series is $\frac{4}{49}$ and common ratio is $\frac{1}{7}$. The sum of this series is

- a. $32\frac{2}{3}$
- b. $30\frac{1}{3}$
- c. 19
- d. 24

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 114 Question Id : 2214 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

$\tan^4\theta + \tan^2\theta = 1$, then the value of $\frac{\cos^2\theta(1+\cos^2\theta)}{2}$ is

- a. 2
- b. 1
- c. $\frac{1}{2}$
- d. $\frac{1}{4}$

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 115 Question Id : 2215 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

At a point 100m away from the base of a tree, a surveyor measures the angle of elevation to the top of a tree to be 30° . The sum of the distance from the point to the top of the tree and the height of the tree is

- a. $\frac{200\sqrt{3}}{3}$
- b. $100\sqrt{3}$ m
- c. $200\sqrt{3}$
- d. $300\sqrt{3}$ m

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 116 Question Id : 2216 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which one of the following propounded that 'destiny determines everything, man is powerless'

- a. Jains
- b. Buddhists
- c. Ajivakas
- d. Mimansakas

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d

Question Number : 117 Question Id : 2217 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Arrange the following battles of the Mughal period in Chronological order-

1. Battle of Ghagara 2. Battle of Khanwa 3. Battle of Chausa 4. Battle of Samugarh

Select the answer from the following codes

- a. 2-1-3-4
- b. 1-3-2-4
- c. 3-2-1-4
- d. 2-3-1-4

Options :

1.  a

2.  b

3.  c

4.  d

Question Number : 118 Question Id : 2218 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

During the period of Indian freedom struggle, who amongst the following started the Central Hindu School

- a. Annie Besant
- b. Bhikaji Cama
- c. MG Ranade
- d. Madan Mohan Malviya

Options :

1.  a

2.  b

3.  c

4.  d

Question Number : 119 Question Id : 2219 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The difference in the duration of day and night increases as one moves from

- a. West to East
- b. East and West of Prime Meridian
- c. Poles to Equator
- d. Equator to Poles

Options :

1.  a

2.  b

3.  c

4.  d

Question Number : 120 Question Id : 2220 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following is called 'Gateway of Pacific'

- a. Suez Canal
- b. Panama Canal
- c. Bering Sea
- d. Gulf of Alaska

Options :

1.  a

2.  b

3.  c

4.  d

Question Number : 121 Question Id : 2221 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Match List 1 with List 2 and select the correct answer from the codes given below in the list

List 1(Steel Plants)





- A. Bhilai
- B. Rourkela
- C. Durgapur
- D. Burnpur

List 2(Countries/Co. Associated)

- 1. Indian Iron and Steel Co.
- 2. Russia
- 3. Germany
- 4. Great Britain

- | | | | | |
|----|------|------|------|------|
| a. | A- 3 | B- 1 | C- 4 | D- 2 |
| b. | A-4 | B- 3 | C- 2 | D- 1 |
| c. | A- 2 | B-3 | C- 4 | D- 1 |
| d. | A-2 | B- 4 | C- 1 | D-3 |

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 122 Question Id : 2222 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

An endoscope, used by doctors for examine the inside of patient's stomach, works on the principle of

- a. Reflection of light
- b. Dispersion of light
- c. Refraction of light
- d. Total internal reflection of light

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 123 Question Id : 2223 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The coil in a heater is made up of

- a. Chromium
- b. Nichrome
- c. Tungsten
- d. Nickel

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 124 Question Id : 2224 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

When a body moves in a simple harmonic motion, then the phase difference (in degrees) between velocity and acceleration is

- a. 90
- b. 180
- c. 0
- d. 270

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d

Question Number : 125 Question Id : 2225 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33





What is the correct chronological order in which the following states of the Indian union were created or granted full statehood?

1. Andhra Pradesh
2. Maharashtra
3. Nagaland
4. Haryana

Select the correct answer using the code given below-

- a. 1,2,3,4
- b. 2,1,3,4
- c. 1,2,4,3
- d. 2,1,4,3

Options :





1.  a
2.  b
3.  c
4.  d

Question Number : 126 Question Id : 2226 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

"Equal pay for equal work" has been insured in the Indian constitution as one of the

- a. Fundamental rights
- b. Directive principles of state policy
- c. Fundamental duties
- d. Economic rights

Options :





1.  a
2.  b
3.  c
4.  d

Question Number : 127 Question Id : 2227 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which one of the following pairs is NOT correctly matched

Scheme		Commencement Year
a. TRYSEM	August, 1979
b. NREP	October, 1980
c. JRY	April, 1995
d. SGSY	April, 1999

Options :





1.  a
2.  b
3.  c
4.  d

Question Number : 128 Question Id : 2228 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Commercial paper is a source of credit for which one of the following

- a. Corporate Industry
- b. Small Scale Industries
- c. Commercial Banks
- d. Foreign Banks

Options :





1.  a
2.  b
3.  c
4.  d

Question Number : 129 Question Id : 2229 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Who amongst the following has decided to withdraw its nominee directors from the boards of the private sector banks

- a. Registrar of Companies
- b. Reserve Bank of India
- c. Registrar of Co-operative Societies
- d. State Governments

Options :





1.  a
2.  b
3.  c
4.  d

Question Number : 130 Question Id : 2230 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The Olympics Games in 2016 will be held in

- a. London
- b. Russia
- c. Germany
- d. Brazil

Options :





1.  a
2.  b
3.  c
4.  d

Question Number : 131 Question Id : 2231 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which of the following pairs is not correct

- a. Rangaswamy cup -hockey
- b. Federation cup- badminton
- c. Deodhar trophy- cricket
- d. Rovers cup- Football

Options :

1.  a
2.  b
3.  c
4.  d

Question Number : 132 Question Id : 2232 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Bats can fly during the night because they produce

- a. Ultrasonic waves
- b. Sound waves
- c. Ultra violet waves
- d. Infra-red waves

Options :

1.  a

2.  b

3.  c

4.  d

Question Number : 133 Question Id : 2233 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The tracking of people by trained dogs is based on the recognition of which of the following compounds in the sweat from feet

- a. Carboxylic acids
- b. Uric acid
- c. Sugar
- d. Salt

Options :

1.  a

2.  b

3.  c

4.  d





Question Number : 134 Question Id : 2234 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A person with 'AB' blood group is sometimes called a universal recipient because of the

- a. Lack of antigens in his blood
- b. Lack of antibodies in his blood
- c. Lack of both antigen and antibodies in his blood
- d. Presence of antibodies in his blood

Options :





1.  a
2.  b
3.  c
4.  d

Question Number : 135 Question Id : 2235 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which one of the following sequence of the chemical elements is correct in terms of the descending order of atomic radius

- a. B- C- N-O
- b. C - B - O -N
- c. N -O -B- C
- d. O-N-C-B

Options :





1.  a
2.  b
3.  c
4.  d

Question Number : 136 Question Id : 2236 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which one of the following is known as salt peter?

- a. NaCl
- b. KNO_3
- c. Na_2CO_3
- d. NaHCO_3

Options :

1.  a
2.  b
3.  c
4.  d





Question Number : 137 Question Id : 2237 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In which among the following molecules is the distance between two adjacent carbon atoms largest

- a. Benzene
- b. Ethane
- c. Ethene
- d. Ethyne

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d





Question Number : 138 Question Id : 2238 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Pawan Hans launched helicopter services in June 2015 in

- a. Jammu & Kashmir
- b. Nagaland
- c. Arunachal Pradesh
- d. Sikkim

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d

Question Number : 139 Question Id : 2239 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which public enterprise got the status of miniratna (Category-I) in June ,2015

- a. EIL
- b. IREDA
- c. NHPC
- d. Bridge & Roof

Options :

- 1.  a

2.  b

3.  c

4.  d

Question Number : 140 Question Id : 2240 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

On 15 June 2015 India signed a motor vehicle agreement with three SAARC nations named

- a. Bangladesh, Srilanka, Maldives
- b. Bangladesh, Nepal, Bhutan
- c. Bangladesh ,Pakistan, Srilanka
- d. Nepal, Srilanka, Maldives

Options :

1.  a

2.  b

3.  c

4.  d

Question Number : 141 Question Id : 2241 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

E is the sister of D. B is the sister of the father of E. Who is B to D?

- a. Cousin
- b. Sister-in-law
- c. Aunt
- d. Niece

Options :

1.  a

2.  b

3.  c

4.  d

Question Number : 142 Question Id : 2242 Question Type : MCQ Option Shuffling : No





Correct : 1.0 Wrong : 0.33

Three of the four number-pairs in the alternatives have numbers which hold the same relationship as the numbers in the number-pair given below. Find out the number-pair in which the two numbers do not hold the same relationship as the two numbers in the number-pair below.

12 : 21

- a. 20 : 32
- b. 28 : 49
- c. 36 : 63
- d. 8 : 14

Options :





- 1.  a
- 2.  b
- 3.  c
- 4.  d

Question Number : 143 Question Id : 2243 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

'Fatigue' is related to 'Race' the same way as 'Appetite' is related to

- a. Food
- b. Dish
- c. Poverty
- d. Fast

Options :

- 1.  a
- 2.  b
- 3.  c
- 4.  d

Question Number : 144 Question Id : 2244 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Among six tourist spots, A is 2 km to the West of C and 1 km to the South of D. F is 3 km to the East of E which is 5 km to the South of B. If B is 3 km to the West of D, which three tourist spots lie in a straight line?

- a. ADF
- b. ACD
- c. CEF
- d. BDE

Options :

1.  a

2.  b

3.  c

4.  d

Question Number : 145 Question Id : 2245 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Arrange the following words in a meaningful logical sequence and choose the appropriate number sequence from the alternatives.

1. Punishment 2. Arrest 3. Prison 4. Crime 5. Judgment 6. Court

- a. 4, 1, 2, 3, 6, 5
- b. 4, 2, 6, 5, 1, 3
- c. 3, 1, 5, 6, 4, 2
- d. 4, 2, 6, 5, 3, 1

Options :

1.  a

2.  b

3.  c

4.  d

Question Number : 146 Question Id : 2246 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

One term in the following number series is wrong. Find out the wrong term.

2, 5, 11, 23, 49, 95, 191

- a. 11
- b. 23
- c. 49
- d. 95

Options :

1.  a

2.  b

3.  c

4.  d

Question Number : 147 Question Id : 2247 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In a certain code, '739' means '*mangoes are fruits*'; '643' means '*they like mangoes*' and '826' means '*mothers like sons*'. Which digit means '*they*' in that code?

- a. 3
- b. 6
- c. 8
- d. 4

Options :



Question Number : 148 Question Id : 2248 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In a certain language, 'FATHER' is coded as 'TAFREH', then in that language, 'GAMBLE' would be coded as:

- a. ELBMAG
- b. MAGELB
- c. AGBMEL
- d. MAGLBE

Options :







Question Number : 149 Question Id : 2249 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A man is facing East. He turns 45° in clockwise direction and another 90° in the same direction. Finally, he turns 180° in anticlockwise direction. Which direction is he facing now?

- a. North-West
- b. North
- c. North-East
- d. South-East

Options :

1.  a
2.  b
3.  c
4.  d

Question Number : 150 Question Id : 2250 Question Type : MCQ Option Shuffling : No





Correct : 1.0 Wrong : 0.33

The numbers in the matrix given below follow a certain trend row-wise and and/or column wise. Study the trend and choose the number which will replace the question mark.

5	20	8
7	42	12
10	?	14

- a. 46
- b. 60
- c. 50
- d. 70

Options :

1.  a
2.  b
3.  c
4.  d