Railway Recruitment Board



Notations:

2.Options shown in red color and with * icon are incorrect.

Question Paper Name: Junior Engineer 27th Aug Shift 3 Actual

Subject Name: Junior Engineer
Creation Date: 2015-08-18 12:45:52.0

Cut Off:0Duration:120Number of Questions:150Total Marks:150.0

Junior Engineer

Group Number:	1
Group Id:	6
Group Maximum Duration:	0
Group Minimum Duration:	120
Revisit allowed for view?:	No
Revisit allowed for edit?:	No
Break time:	0
Group Marks:	150.0

Junior Engineer

Section Id: 6
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: 6
Question Shuffling Allowed: Yes

Question Number: 1 Question Id: 1051 Question Type: MCQ Option Shuffling: No

Correct : 1.0 Wrong : 0.33

Work done in a free expansion process is





```
3. * Negative
     Maximum
Question Number: 2 Question Id: 1052 Question Type: MCQ Option Shuffling: No
Correct : 1.0 Wrong : 0.33
The internal energy of an ideal gas is
Options:
A function of temperature only
     A function of pressure
     A function of volume
      Both pressure and volume
Question Number: 3 Question Id: 1053 Question Type: MCQ Option Shuffling: No
Correct : 1.0 Wrong : 0.33
The process in which no heat enters or leaves the system is called
Options:
     Isobaric
     Isothermal
     Isentropic
     Isochoric
Question Number: 4 Question Id: 1054 Question Type: MCQ Option Shuffling: No
Correct : 1.0 Wrong : 0.33
Ignition quality of diesel fuel is indicated by
Options:
      Octane number
      Cetane number
      Raynolds number
     Mach number
Question Number: 5 Question Id: 1055 Question Type: MCQ Option Shuffling: No
Correct: 1.0 Wrong: 0.33
In Spark ignition engine, fuel used is
Options:
1 × Diesel
2. Petrol
```

```
3 🗶 Kerosene
     Both Diesel and kerosene
Question Number: 6 Question Id: 1056 Question Type: MCQ Option Shuffling: No
Correct: 1.0 Wrong: 0.33
The heat flow through solids only by
Options:
Conduction
     Convection
     Radiation
     Does not flow
Question Number: 7 Question Id: 1057 Question Type: MCQ Option Shuffling: No
Correct: 1.0 Wrong: 0.33
A perfect black body is
Options:
     One which absorbs total radiant energy
     Black in colour
     One which does not reflect the radiant energy
     One which absorbs all radiant energy at all wavelengths
Question Number: 8 Question Id: 1058 Question Type: MCQ Option Shuffling: No
Correct : 1.0 Wrong : 0.33
Weld spatter is a welding defect due to
Options:
     Lack of flux
     High welding current
     High welding speed
     Dirty metal surface
Question Number: 9 Question Id: 1059 Question Type: MCQ Option Shuffling: No
Correct : 1.0 Wrong : 0.33
During arc welding, eyes need to be protected against
Options:
     Intense glare
```

Microwave High frequency waves Ultraviolet and infrared radiation Question Number: 10 Question Id: 1060 Question Type: MCQ Option Shuffling: No Correct: 1.0 Wrong: 0.33 Lathe bed is usually made of **Options:** Mild steel Cast iron High speed steel Alloy steel Question Number: 11 Question Id: 1061 Question Type: MCQ Option Shuffling: No Correct: 1.0 Wrong: 0.33 Extrusion is the process of **Options:** Producing holes by arc Metal shaping on presses Pushing the heated billet of metal through the orifice Welding two dissimilar metals Question Number: 12 Question Id: 1062 Question Type: MCQ Option Shuffling: No **Correct: 1.0 Wrong: 0.33** A third flask sometimes used between cope and drag is called **Options:** 1 * Middle Core 3. * Fillet 4 V Cheek Question Number: 13 Question Id: 1063 Question Type: MCQ Option Shuffling: No Correct: 1.0 Wrong: 0.33 Gears in mass production is produced by 1. * Milling

- 2. * Shaping 3. W Hobbing 4. * Forming Question Number: 14 Question Id: 1064 Question Type: MCQ Option Shuffling: No **Correct : 1.0 Wrong : 0.33** Scab is a **Options:** Sand casting defect Machining defect Welding defect Forging defect Question Number: 15 Question Id: 1065 Question Type: MCQ Option Shuffling: No **Correct : 1.0 Wrong : 0.33** The following symbol depicts **Options:** 1 Relay Lightning arrester 3. Fuse
 - Circuit Breaker

Question Number: 16 Question Id: 1066 Question Type: MCQ Option Shuffling: No

Correct: 1.0 Wrong: 0.33

Thermal relay works on the principle of

- Heating effect of current
- Flow of current in the circuit
- 3. 🗶 Ohm's Law
- Electromagnetic Induction

Question Number: 17 Question Id: 1067 Question Type: MCQ Option Shuffling: No **Correct : 1.0 Wrong : 0.33** Which of the following is not a part of a DC machine? **Options:** Stabilizer 2. Stator Commutator Armature Question Number: 18 Question Id: 1068 Question Type: MCQ Option Shuffling: No **Correct : 1.0 Wrong : 0.33** The type of transformer used in a Stabilizer is **Options:** 1 × Power Transformer 2. Auto Transformer Current Transformer Distribution Transformer Question Number: 19 Question Id: 1069 Question Type: MCQ Option Shuffling: No **Correct : 1.0 Wrong : 0.33** Safety relay used in a transformer acts as **Options:** Temperature Gauge Explosion Vent Buchholz Relay Earthing Point Question Number: 20 Question Id: 1070 Question Type: MCQ Option Shuffling: No **Correct : 1.0 Wrong : 0.33** .The value of slip of an induction motor at synchronous speed is **Options:** 1. v zero 2. * infinite unity cannot be determined

 $Question\ Number: 21\ \ Question\ Id: 1071\ \ Question\ Type: MCQ\ \ Option\ Shuffling: No$

Correct : 1.0 Wrong : 0.33

The motor used in electrical shaving machines is

Options:

1. Vulversal motor

Shaded pole motor

3. Capacitor motor

Reluctance motor

Question Number: 22 Question Id: 1072 Question Type: MCQ Option Shuffling: No

Correct : 1.0 Wrong : 0.33

Economiser used in power plants is used to heat

Options:

1 * flue gases

🍃 🙀 intake air

steam

feed water

Question Number: 23 Question Id: 1073 Question Type: MCQ Option Shuffling: No

Correct : 1.0 Wrong : 0.33

Which of the following is a high head turbine

Options:

Propeller turbine

Francis turbine

Kaplan turbine

Pelton wheel turbine

Question Number: 24 Question Id: 1074 Question Type: MCQ Option Shuffling: No

Correct: 1.0 Wrong: 0.33

A 4 ohm resistor is connected in a circuit containing 4 V supply. The current drawn is

Options:

1 × 8 A

2. 🗱 4 A

3. 🗸 1 A

4. ***** 16 A

Question Number: 25 Question Id: 1075 Question Type: MCQ Option Shuffling: No

Correct: 1.0 Wrong: 0.33

Which of the following rectifiers can withstand maximum voltage on DC side

Options:

Mercury bulb rectifier

Glass bulb rectifier

3. V Steel tank rectifier

Varactor diode

Question Number: 26 Question Id: 1076 Question Type: MCQ Option Shuffling: No

Correct: 1.0 Wrong: 0.33

In an arc rectifier, the drop in voltage at the cathode is approximately

Options:

1 × 1 volt

6 to 7 volts

3 × 60 to 70 volts

1.2 to 7 volts

Question Number: 27 Question Id: 1077 Question Type: MCQ Option Shuffling: No

Correct: 1.0 Wrong: 0.33

Which one of the following converts sound waves into AF signals

Options:

loudspeaker

2 🗱 antenna

3. * rectifier

4. microphone

Question Number: 28 Question Id: 1078 Question Type: MCQ Option Shuffling: No

Correct : 1.0 Wrong : 0.33

Which one of the following gives noiseless reception

Options:

amplitude modulation

phase modulation

frequency modulation

amplitude or phase modulation

Question Number : 29 Question Id : 1079 Question Type : MCQ Option Shuffling : No

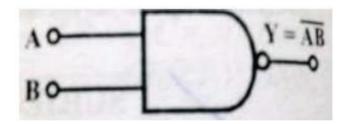
Correct: 1.0 Wrong: 0.33

The basic logic gate whose output is the complement of the input is **Options:** 1 * OR gate 2. * AND gate 3. INVERTER gate XOR gate Question Number: 30 Question Id: 1080 Question Type: MCQ Option Shuffling: No Correct: 1.0 Wrong: 0.33 The most commonly used semiconductor material is **Options:** 1. silicon 2. * carbon 3. 🗶 germanium 4. * phosphorus Question Number: 31 Question Id: 1081 Question Type: MCQ Option Shuffling: No **Correct : 1.0 Wrong : 0.33** For a P-N junction diode, the current in reverse bias may be **Options:** few amperes few milliamperes between 0.5 A to 1 A few microamperes to nanoamperes Question Number: 32 Question Id: 1082 Question Type: MCQ Option Shuffling: No Correct: 1.0 Wrong: 0.33 A full wave bridge rectifier is supplied voltage at 50 Hz. The lowest ripple frequency will be **Options:** 1 * 400 Hz 2 × 200 Hz 3. 🗸 100 Hz

Question Number: 33 Question Id: 1083 Question Type: MCQ Option Shuffling: No Correct: 1.0 Wrong: 0.33

50 Hz

Identify the following logic gate



Options:

- 1. * AND gate
- 2. * OR gate
- 3. ✓ NAND gate
- 4. * NOT gate

Question Number: 34 Question Id: 1084 Question Type: MCQ Option Shuffling: No

Correct : 1.0 Wrong : 0.33

The forbidden energy gap for germanium is

Options:

1. * 0.12 eV

2. 🗸 0.72 eV

1.11 eV

4 × 1.52 eV

Question Number: 35 Question Id: 1085 Question Type: MCQ Option Shuffling: No

Correct : 1.0 Wrong : 0.33

The term nominal stress in stress-strain curve for mild steel implies

Options:

- Average stress
- Actual stress
- Yield stress
- Stress at necking

Question Number: 36 Question Id: 1086 Question Type: MCQ Option Shuffling: No

Correct: 1.0 Wrong: 0.33

Inorganic soil with low compressibility is represented by

Options:

1. × MH

- 2. SL
 3. ML
- 4. * CH

 $Question\ Number: 37\ \ Question\ Id: 1087\ \ Question\ Type: MCQ\ \ Option\ Shuffling: No$

Correct: 1.0 Wrong: 0.33

Minimum grade of concrete to be used in reinforced concrete is

Options:

- 1. * M 10
- 2 × M 15
- 3. M 20
- M 25

Question Number: 38 Question Id: 1088 Question Type: MCQ Option Shuffling: No

Correct: 1.0 Wrong: 0.33

Which one of following is a compression member?

Options:

- 1. * Purlin
- Boom
- 3 💥 Girt
- 4. * Tie

Question Number: 39 Question Id: 1089 Question Type: MCQ Option Shuffling: No

Correct: 1.0 Wrong: 0.33

Absolute pressure in flow system

Options:

- is always above local atmospheric pressure
- is equal to a vacuum pressure
- May be above, below or equal to the local atmospheric pressure
- is also called negative pressure

Question Number: 40 Question Id: 1090 Question Type: MCQ Option Shuffling: No

Correct : 1.0 Wrong : 0.33

Gantt charts indicate

Options: Comparison of actual progress with the scheduled progress Balance of work to be done Progressive cost of project Inventory costs Question Number: 41 Question Id: 1091 Question Type: MCQ Option Shuffling: No **Correct : 1.0 Wrong : 0.33** As per Indian Standard specifications, concrete is designated into **Options:** 1 × 3 grades 2. × 5 grades 3. 7 grades 4. * 10 grades Question Number: 42 Question Id: 1092 Question Type: MCQ Option Shuffling: No **Correct : 1.0 Wrong : 0.33** First class timber has an average life of **Options:** Less than one year 1 to 5 years 3. **✓** 5 to 10 years 4. More than 10 years Question Number: 43 Question Id: 1093 Question Type: MCQ Option Shuffling: No **Correct : 1.0 Wrong : 0.33** Equation of continuity is based on the principle of conservation of **Options:** 1. Mass 2 * Energy 3. Momentum 4. * Time Question Number: 44 Question Id: 1094 Question Type: MCQ Option Shuffling: No Correct: 1.0 Wrong: 0.33 The instrument used for accurate centering in plane table survey is

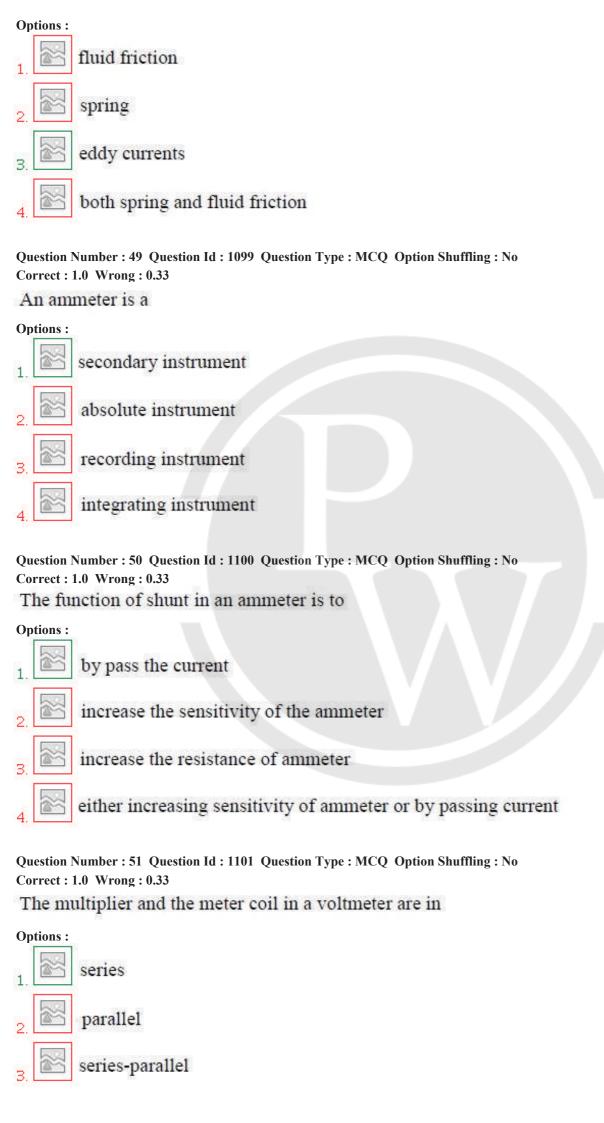
Options:

1. Spirit level

2. * Alidade Plumbing fork Through compass Question Number: 45 Question Id: 1095 Question Type: MCQ Option Shuffling: No **Correct : 1.0 Wrong : 0.33** A series of closely spaced contour lines represents a **Options:** 1. V Steep slope Gentle slope Uniform slope Plane surface Question Number: 46 Question Id: 1096 Question Type: MCQ Option Shuffling: No **Correct : 1.0 Wrong : 0.33** After storage, the strength of cement **Options:** Decreases Increases Remains same May increase or decrease Question Number: 47 Question Id: 1097 Question Type: MCQ Option Shuffling: No Correct: 1.0 Wrong: 0.33 The pointer of an indicating instrument should be **Options:** very light very heavy either light or heavy neither light nor heavy

Question Number: 48 Question Id: 1098 Question Type: MCQ Option Shuffling: No Correct: 1.0 Wrong: 0.33

In majority of instruments, damping is provided by



bi- junction mode

Question Number: 52 Question Id: 1102 Question Type: MCQ Option Shuffling: No

Correct : 1.0 Wrong : 0.33

The value of peak factor considered in the estimation of water demand for the population of 1,00,000 is

Options:







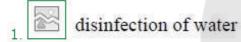


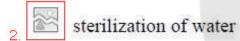
 $Question\ Number: 53\ \ Question\ Id: 1103\ \ Question\ Type: MCQ\ \ Option\ Shuffling: No$

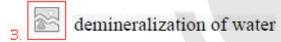
Correct : 1.0 Wrong : 0.33

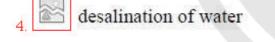
A water borne disease may be controlled by

Options:







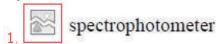


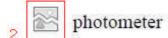
Question Number: 54 Question Id: 1104 Question Type: MCQ Option Shuffling: No

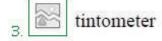
Correct : 1.0 Wrong : 0.33

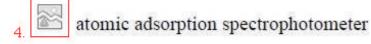
The colour in water is determined using instrument called

Options:





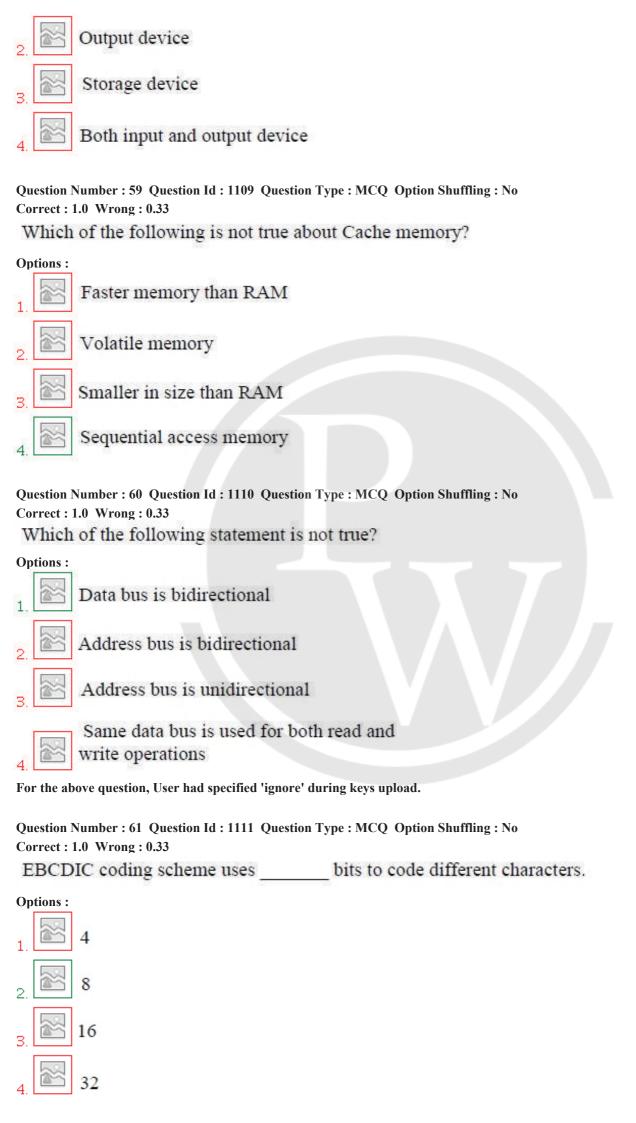




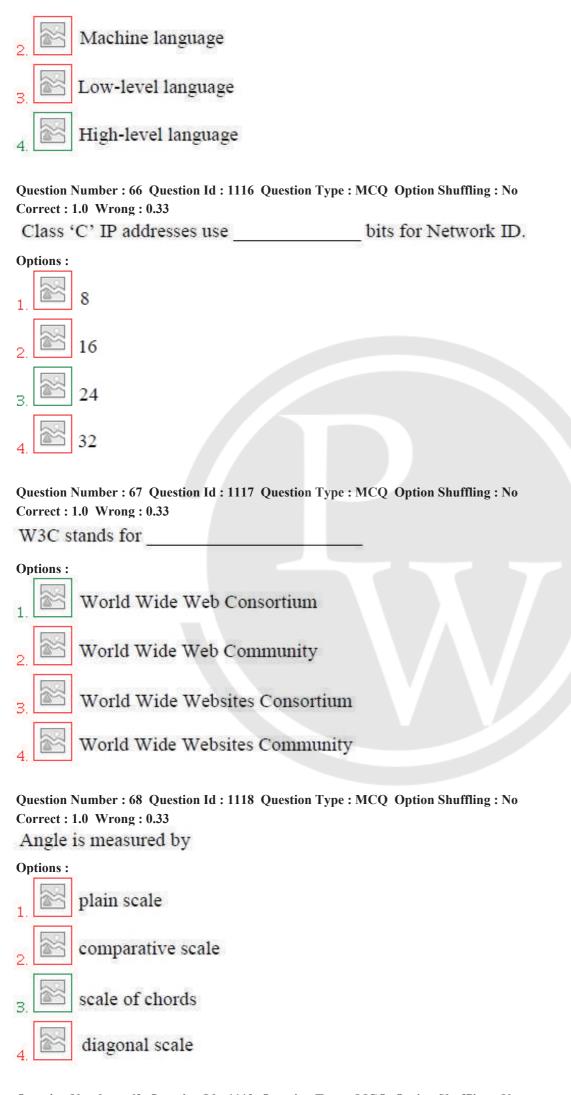
 $Question\ Number: 55\ \ Question\ Id: 1105\ \ Question\ Type: MCQ\ \ Option\ Shuffling: No$

Correct: 1.0 Wrong: 0.33

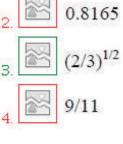
The high concentration level of ozone affects the vegetation and the colour of the
affected part of leaf becomes
Options:
silver
black black
colourless colourless
brown brown
Question Number: 56 Question Id: 1106 Question Type: MCQ Option Shuffling: No Correct: 1.0 Wrong: 0.33
The unit of sound pressure level, dBA is defined as
Options:
summation of measured and reference sound pressure level
ratio of measured to reference sound pressure levels
ratio of measured to reference sound pressure levels in logarithmic scale
product of measured to reference sound pressure levels
Question Number: 57 Question Id: 1107 Question Type: MCQ Option Shuffling: No Correct: 1.0 Wrong: 0.33
The presence of ozone is considered to be boon for humanity in
Options:
1. troposphere
2. stratosphere
mesosphere
ionosphere ionosphere
Question Number: 58 Question Id: 1108 Question Type: MCQ Option Shuffling: No Correct: 1.0 Wrong: 0.33
Joystick is a(an)
Options:
1. Input device



Question Number: 62 Question Id: 1112 Question Type: MCQ Option Shuffling: No Correct: 1.0 Wrong: 0.33 The hexadecimal representation of 125.25 is **Options:** (7D.40)16 $7D.04)_{16}$ $(D7.40)_{16}$ (D7.04)16 Question Number: 63 Question Id: 1113 Question Type: MCQ Option Shuffling: No **Correct : 1.0 Wrong : 0.33** Considering X as a binary variable, the Boolean expression X.X' is equivalent to **Options:** Question Number: 64 Question Id: 1114 Question Type: MCQ Option Shuffling: No Correct: 1.0 Wrong: 0.33 The 2's compliment of the binary number (10101010)2 is **Options:** $(10000000)_2$ $(00000000)_2$ $(01010110)_2$ $(10101010)_2$ Question Number: 65 Question Id: 1115 Question Type: MCQ Option Shuffling: No **Correct : 1.0 Wrong : 0.33** A programming language which enables a programmer to write programs that are more or less independent of a particular type of computer is called **Options:** Assembly language



Correct: 1.0 Wrong: 0.33 If a line is parallel to V.P. and inclined to H.P., its true length will be seen in **Options:** Side view Top view Both front and top views Front view Question Number: 70 Question Id: 1120 Question Type: MCQ Option Shuffling: No **Correct : 1.0 Wrong : 0.33** If a circular plane is inclined at 600 with the H.P. and 300 with the V.P., its side view will be **Options:** a circle a straight line an ellipse true shape Question Number: 71 Question Id: 1121 Question Type: MCQ Option Shuffling: No Correct: 1.0 Wrong: 0.33 The exact value of R.F. on an isometric scale is **Options:** 0.815 0.8165

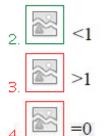


Question Number: 72 Question Id: 1122 Question Type: MCQ Option Shuffling: No

Correct: 1.0 Wrong: 0.33

The eccentricity of an ellipse is



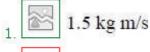


Question Number: 73 Question Id: 1123 Question Type: MCQ Option Shuffling: No

Correct : 1.0 Wrong : 0.33

A force acting on a body of mass 1.5 kg, accelerates it from rest to a velocity of 4 m/s. The change in the momentum of the body is

Options:









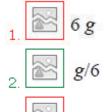
For the above question, User had specified 'ignore' during keys upload.

Question Number: 74 Question Id: 1124 Question Type: MCQ Option Shuffling: No

Correct: 1.0 Wrong: 0.33

Let g be the acceleration due to gravity on the surface of Earth. The acceleration due to gravity on the surface of Moon is

Options:





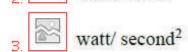


Question Number: 75 Question Id: 1125 Question Type: MCQ Option Shuffling: No

Correct : 1.0 Wrong : 0.33

The quantity of work equal to one joule is also equivalent to one





Question Number: 76 Question Id: 1126 Question Type: MCQ Option Shuffling: No

Correct : 1.0 Wrong : 0.33

A source A of frequency f and another source of frequency 2 f are used to produce sound waves in a science laboratory. Let vA and vB represent the velocity of waves produced by the sources A and B, respectively. Then v_B/v_A is

Options:











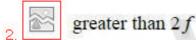
Question Number: 77 Question Id: 1127 Question Type: MCQ Option Shuffling: No

Correct : 1.0 Wrong : 0.33

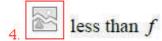
The size of image formed by a convex lens (focal length f) is equal to the size of the object. The object is placed at a distance

Options:





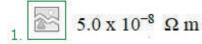




Question Number: 78 Question Id: 1128 Question Type: MCQ Option Shuffling: No

Correct : 1.0 Wrong : 0.33

A 1m long metal wire of radius 1 cm has a resistance of 1.6 x $10^{-4} \Omega$. The resistivity of the metal is



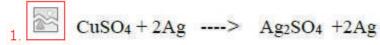
$$\frac{4}{10^{-8}}$$
 3.2 x10⁻⁸ Ω m

Question Number: 79 Question Id: 1129 Question Type: MCQ Option Shuffling: No

Correct: 1.0 Wrong: 0.33

The decreasing order of reactivity of four metals is in the order: Zn > Fe > Cu > Ag. In view of the order of reactivity, which of the following reaction is feasible?

Options:



Question Number: 80 Question Id: 1130 Question Type: MCQ Option Shuffling: No

Correct: 1.0 Wrong: 0.33

Sodium sulphate dissociates in water as follows:

$$Na_2SO_4 = 2 Na^+ + SO_4^{2-}$$

What is the total number of ions present in the solution containing one mole of dissolved sodium sulphate in water?

Options:

 $Question\ Number: 81\ \ Question\ Id: 1131\ \ Question\ Type: MCQ\ \ Option\ Shuffling: No$

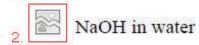
Correct: 1.0 Wrong: 0.33

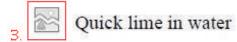
Which of the following is an endothermic process?

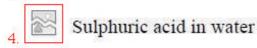
Dissolution of

Options:









Question Number: 82 Question Id: 1132 Question Type: MCQ Option Shuffling: No

Correct : 1.0 Wrong : 0.33 An organic compound X, molecular mass= 46, undergoes dehydration reaction to yield the compound $\underline{\mathbf{Y}}$, the first member of olefin homologous series. What is the compound $\underline{\mathbf{X}}$? **Options:** Aldehyde

Alcohol

Ester

Carboxylic acid

Question Number: 83 Question Id: 1133 Question Type: MCQ Option Shuffling: No

Correct : 1.0 Wrong : 0.33

The values of pH of four different solutions of salts W, X, Y, & Z respectively in water are 6.2, 6.5, 6.8 and 7.5 respectively. Which of them is a basic salt?

Options:









Question Number: 84 Question Id: 1134 Question Type: MCQ Option Shuffling: No

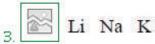
Correct : 1.0 Wrong : 0.33

Which one of the following set of elements has the same number of valence electrons?

Options:







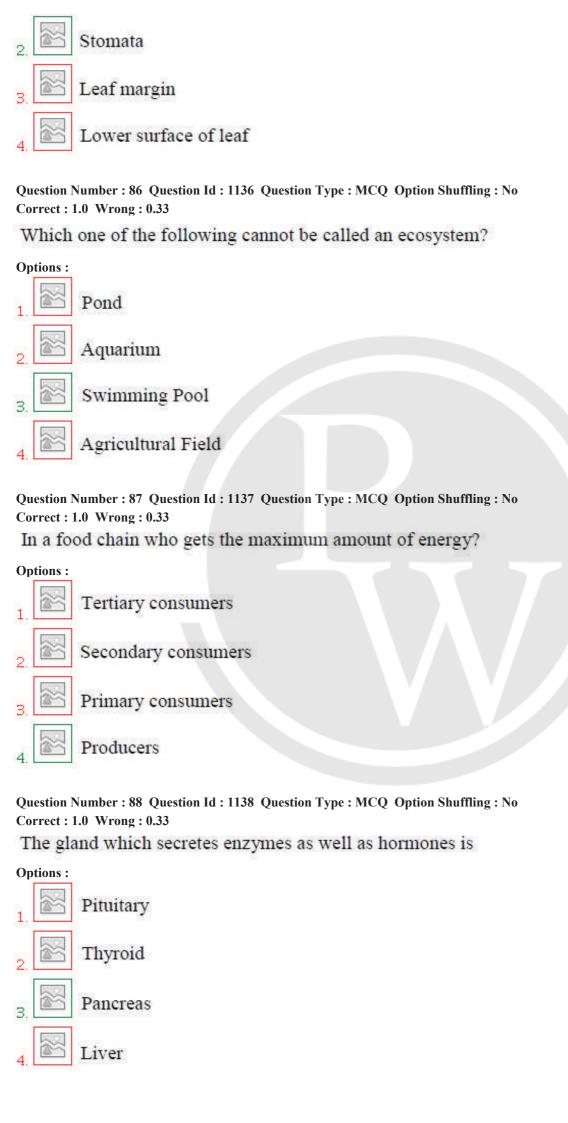


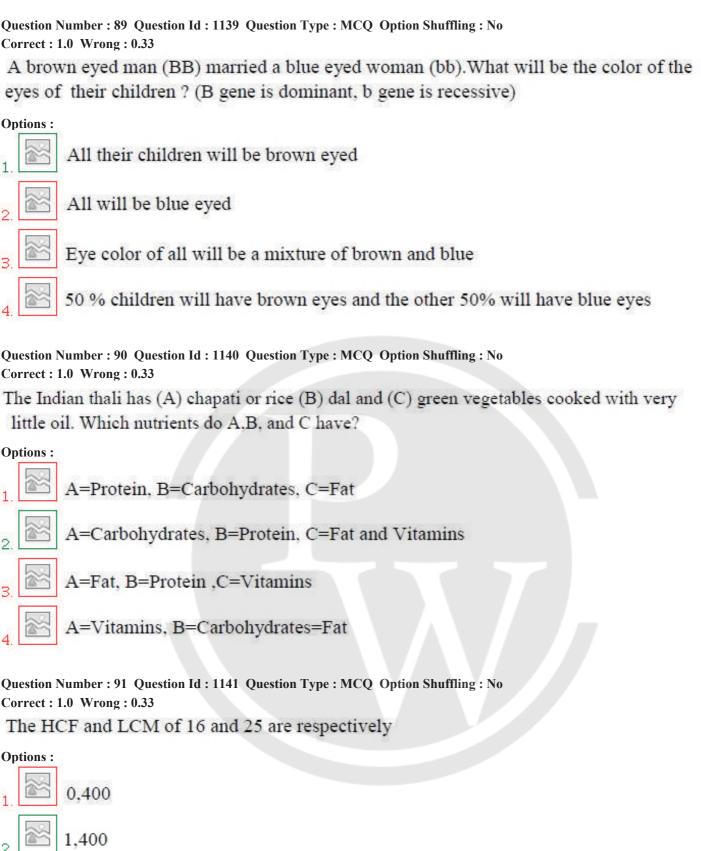
Question Number: 85 Question Id: 1135 Question Type: MCQ Option Shuffling: No

Correct: 1.0 Wrong: 0.33

Which part of the leaf makes carbon-dioxide available for Photosynthesis?





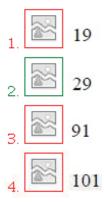


1,25 1,25 16,25

Question Number: 92 Question Id: 1142 Question Type: MCQ Option Shuffling: No

Correct: 1.0 Wrong: 0.33

The least number which when divided by 8 and 12 leaving remainder 5 in each case is Options:



Question Number: 93 Question Id: 1143 Question Type: MCQ Option Shuffling: No

Correct : 1.0 Wrong : 0.33

If a:b=2:3 and a+b=45, then a is equal to

Options:









Question Number: 94 Question Id: 1144 Question Type: MCQ Option Shuffling: No

Correct: 1.0 Wrong: 0.33

If $2,x,x^2,4$ are in proportion, then x is equal to

Options:









Question Number: 95 Question Id: 1145 Question Type: MCQ Option Shuffling: No

Correct: 1.0 Wrong: 0.33

If 20% of a number is 250, then number is

Options:



25



1250



2500



Question Number: 96 Question Id: 1146 Question Type: MCQ Option Shuffling: No

Correct : 1.0 Wrong : 0.33

In how many years ₹ 500 will amount to ₹ 700 at simple interest of 5% per annum?

Options:













Question Number: 97 Question Id: 1147 Question Type: MCQ Option Shuffling: No

Correct : 1.0 Wrong : 0.33

In how many years ₹ 2000 will amount to ₹ 2100 at 10% per annum compounded half yearly?

Options:











Question Number: 98 Question Id: 1148 Question Type: MCQ Option Shuffling: No

Correct: 1.0 Wrong: 0.33

The cost price of an article is \(\square 220.\) If profit is 10%, then selling price of article is

Options:



₹ 242



₹ 252



₹ 200



₹ 363

Question Number: 99 Question Id: 1149 Question Type: MCQ Option Shuffling: No

Correct: 1.0 Wrong: 0.33

. If selling price of an article is ₹ 330 and profit is 10%, then cost price of article is



Question Number: 100 Question Id: 1150 Question Type: MCQ Option Shuffling: No

Correct: 1.0 Wrong: 0.33

A shopkeeper mixes 10 kg of wheat which cost him ₹ 20/kg with 5 kg of wheat which cost him ₹15/kg. He sells the mixture at ₹21/kg. His profit is

Options:

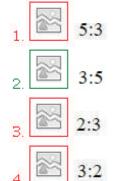


Question Number: 101 Question Id: 1151 Question Type: MCQ Option Shuffling: No

Correct: 1.0 Wrong: 0.33

In two vessels A and B, spirit and water are in the ratio 2:1 and 2:3 respectively. The ratio in which these are mixed which contains half water is

Options:

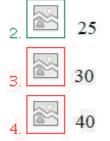


Question Number: 102 Question Id: 1152 Question Type: MCQ Option Shuffling: No

Correct : 1.0 Wrong : 0.33

The speed of a car is 72km/h. The time taken by it to cover a distance of 500 m in seconds is



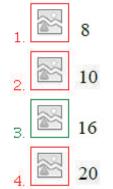


Question Number: 103 Question Id: 1153 Question Type: MCQ Option Shuffling: No

Correct: 1.0 Wrong: 0.33

A train 80m long is moving with the speed of 45km/h. The time taken by it in seconds to pass a bridge 120m long is

Options:

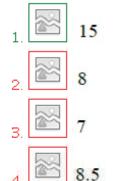


Question Number: 104 Question Id: 1154 Question Type: MCQ Option Shuffling: No

Correct: 1.0 Wrong: 0.33

A and B can do a piece of work in 6 days. A alone can do the same work in 10 days. In how many days B alone, can do the same work?

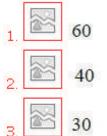
Options:



 $Question\ Number: 105\ \ Question\ Id: 1155\ \ Question\ Type: MCQ\ \ Option\ Shuffling: No$

Correct: 1.0 Wrong: 0.33

P and Q can do a piece of work in 15 days, Q and R in 12 days, and R and P in 20 days. The number of days required for Q to do the same work alone is



Question Number: 106 Question Id: 1156 Question Type: MCQ Option Shuffling: No

Correct: 1.0 Wrong: 0.33

The average of 4,6,0,3,6, is

Options:



4.75







Question Number: 107 Question Id: 1157 Question Type: MCQ Option Shuffling: No

Correct : 1.0 Wrong : 0.33

The average of 20 observations is 18 and average of 30 observations is 25.

The average of all 50 observations is

Options:



21.5





22.5

Question Number: 108 Question Id: 1158 Question Type: MCQ Option Shuffling: No

Correct: 1.0 Wrong: 0.33

Sum of first 20 terms of the AP

-4, -2,0,2,.... is

Options:



600





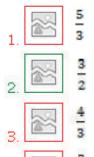


Question Number: 109 Question Id: 1159 Question Type: MCQ Option Shuffling: No

Correct: 1.0 Wrong: 0.33

The sum of infinite GP $1, \frac{1}{3}, \frac{1}{9}, \frac{1}{27}, \dots$ is

Options:

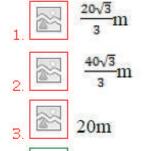


Question Number: 110 Question Id: 1160 Question Type: MCQ Option Shuffling: No

Correct: 1.0 Wrong: 0.33

The angle of elevation of top of a tower from a point on the ground 20 m away from the foot of the tower is 60°. The height of tower is

Options:



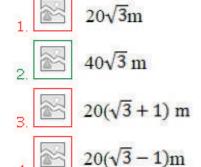
Question Number: 111 Question Id: 1161 Question Type: MCQ Option Shuffling: No

Correct: 1.0 Wrong: 0.33

 $20\sqrt{3}m$

The angles of elevation of top of a tower, 30m high, from two points on opposite side of the tower are 30° and 60° respectively. If the points and tower are in same line, the distance between two points is

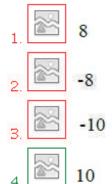
Options:



 $Question\ Number: 112\ \ Question\ Id: 1162\ \ Question\ Type: MCQ\ \ Option\ Shuffling: No$

Correct : 1.0 Wrong : 0.33

If (x-2) is a factor of x^3+2x^2-ax+4 , then a is equal to



Question Number: 113 Question Id: 1163 Question Type: MCQ Option Shuffling: No

Correct: 1.0 Wrong: 0.33

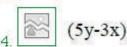
One of the factor of $(2x+3y)^3 - (5x-2y)^3$ is

Options:









Question Number: 114 Question Id: 1164 Question Type: MCQ Option Shuffling: No

Correct: 1.0 Wrong: 0.33

The value of k for which $x^2+5x-2k=0$ has equal roots is

Options:









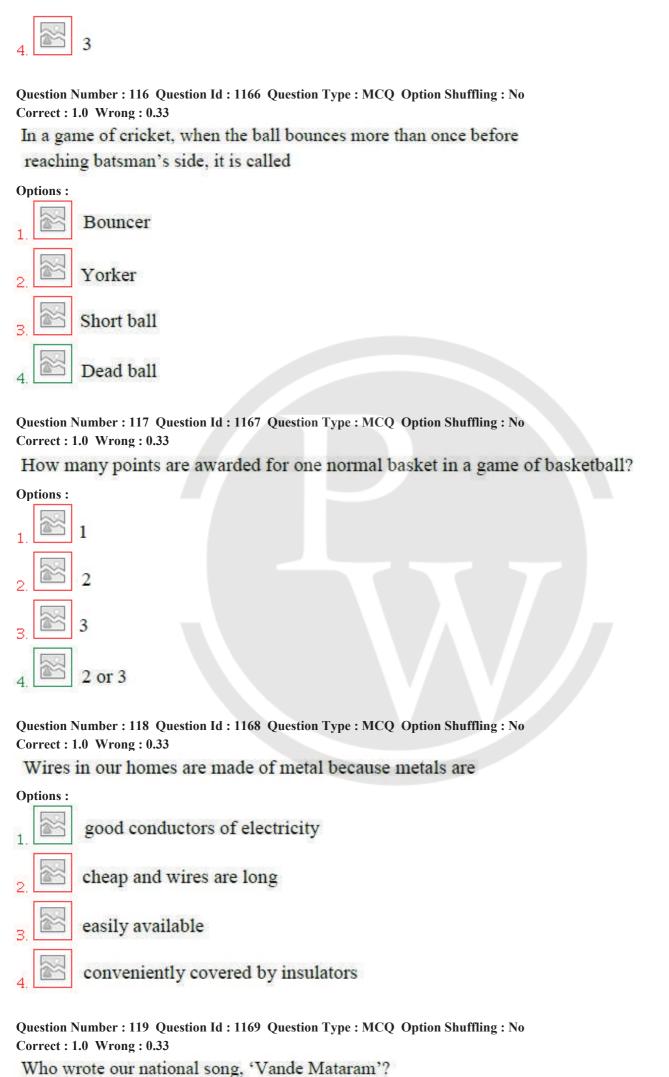
Question Number: 115 Question Id: 1165 Question Type: MCQ Option Shuffling: No

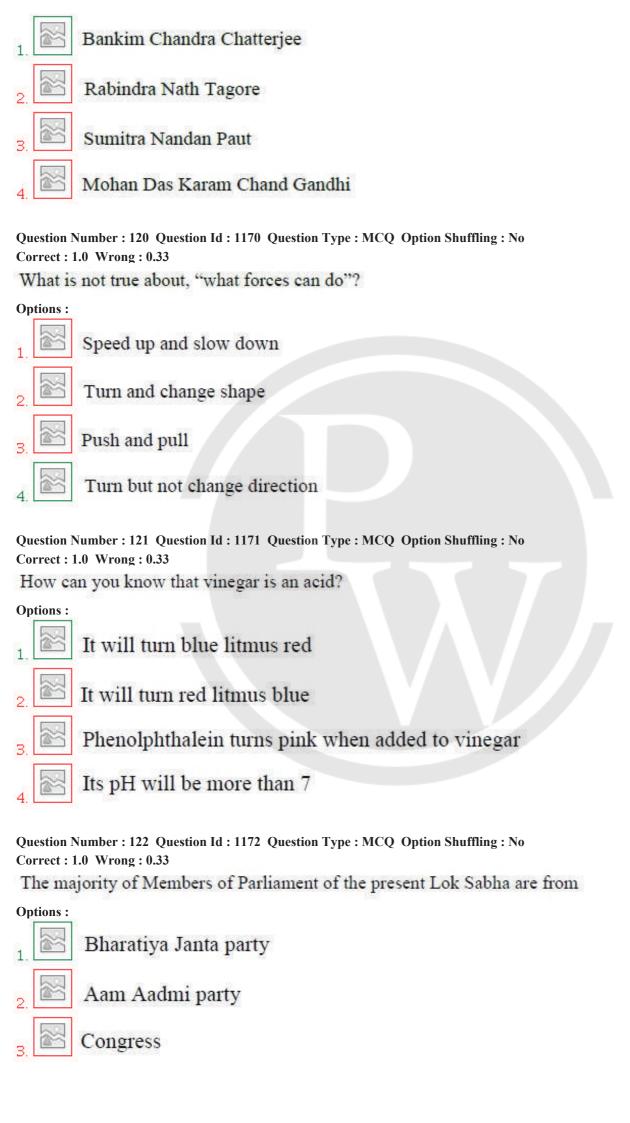
Correct: 1.0 Wrong: 0.33

The sum of squares of the roots of the equation $x^2+x-2=0$ is







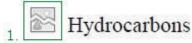


Question Number: 123 Question Id: 1173 Question Type: MCQ Option Shuffling: No

Correct: 1.0 Wrong: 0.33

Alcohols are studied in Organic Chemistry because there are

Options:



Silicon compounds

Ring compounds

Made C, O, N

Question Number: 124 Question Id: 1174 Question Type: MCQ Option Shuffling: No

Correct : 1.0 Wrong : 0.33

When new plants are grown from plant parts other than the flower, it is termed

Options:



Sexual reproduction

Wegetative propagation

Binary fission

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

Question Number: 125 Question Id: 1175 Question Type: MCQ Option Shuffling: No

Correct: 1.0 Wrong: 0.33

When cell division in the body is out of control, it causes

Options:

Fever 1

2 Cancer

Inflammation

a and c

 $Question\ Number: 126\ Question\ Id: 1176\ Question\ Type: MCQ\ Option\ Shuffling: No$

Correct : 1.0 Wrong : 0.33

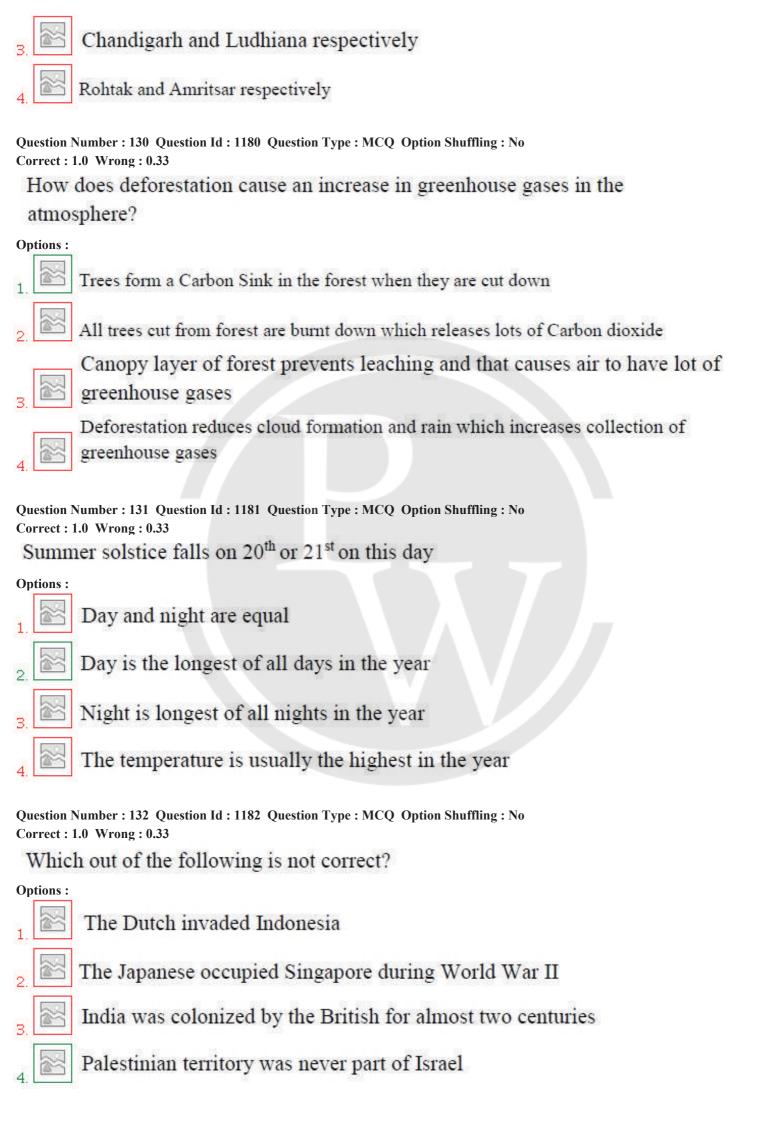
Mules which humans use to carry load are unable to breed because

Options: their parents belong to the same species their parents belong to different species reproductive organs are absent in mules mules are neither female nor male Question Number: 127 Question Id: 1177 Question Type: MCQ Option Shuffling: No **Correct : 1.0 Wrong : 0.33** What is **not** true regarding your image, when you see yourself in the plane mirror? **Options:** Image is of the same size as you It is at the same distance behind the mirror as you are infront of it The face, hands and legs are in the same direction in the mirror as yours Your image is laterally inverted in the mirror Question Number: 128 Question Id: 1178 Question Type: MCQ Option Shuffling: No **Correct : 1.0 Wrong : 0.33** One of the India's past presidents was active as a scientist of repute till his death recently. Select his name. **Options:** Rajendra Prasad Sarvapalli Radhakrishnan A P J Abdul Kalam Pranab Mukherji For the above question, User had specified 'ignore' during keys upload. Question Number: 129 Question Id: 1179 Question Type: MCQ Option Shuffling: No **Correct : 1.0 Wrong : 0.33** The state capital of Haryana and Punjab is

Options:

Ambala

Chandigarh



Question Number: 133 Question Id: 1183 Question Type: MCQ Option Shuffling: No Correct: 1.0 Wrong: 0.33

What was the name of the founder of Buddhism, before he renounced the world?

Options:

1.

Gautama

2.

Siddhartha

3.

Partha

4.

Mahaveera

Question Number: 134 Question Id: 1184 Question Type: MCQ Option Shuffling: No

Correct : 1.0 Wrong : 0.33

Which of the following became the greatest landmark in history of mankind as it ushered in an era of liberty, equality and fraternity?

Options:

Spanish Revolution in 1936

Russian Revolution in 1971

Serbian Revolution in 1804

French Revolution in 1789

Question Number: 135 Question Id: 1185 Question Type: MCQ Option Shuffling: No

Correct : 1.0 Wrong : 0.33

Which salt of Calcium is Plaster of Paris?

Options:

Calcium Sulphate

Calcium Oxide

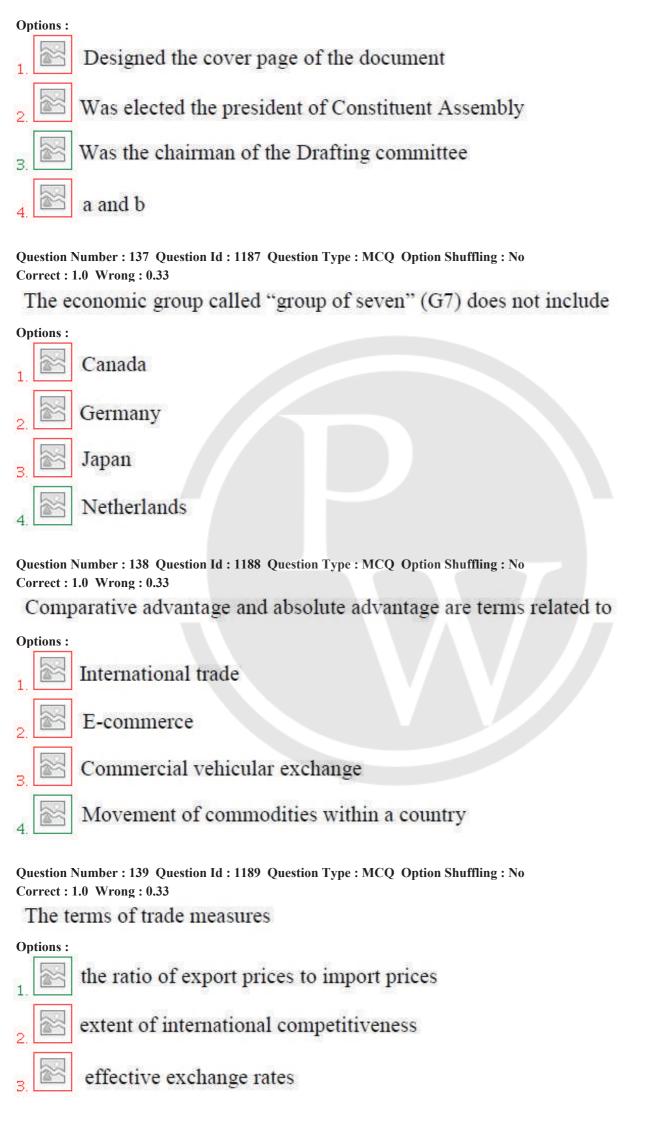
Calcium Carbonate

Calcium Hydroxide

Question Number: 136 Question Id: 1186 Question Type: MCQ Option Shuffling: No

Correct : 1.0 Wrong : 0.33

Dr. Baba Saheb Bhimrao Ambedkar, is regarded as the architect of Indian constitution because, he



Nominal exchange rates

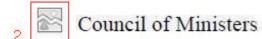
Question Number: 140 Question Id: 1190 Question Type: MCQ Option Shuffling: No

Correct : 1.0 Wrong : 0.33

The President of India can declare Emergency under Article 352 on the advice of:

Options:









Question Number: 141 Question Id: 1191 Question Type: MCQ Option Shuffling: No

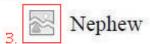
Correct : 1.0 Wrong : 0.33

A boy pointing to a photograph said, "His father is my father's brother." How is the person in the photograph related to the boy?

Options:









Question Number: 142 Question Id: 1192 Question Type: MCQ Option Shuffling: No

Correct : 1.0 Wrong : 0.33

The first two numbers on the left of the sign '::' are related in a certain way. The same relationship holds for the second pair of numbers on the right side of the sign '::' of which one is missing. Find the missing one from the alternatives.

35:16::53:?

Options:



61





Question Number: 143 Question Id: 1193 Question Type: MCQ Option Shuffling: No

Correct: 1.0 Wrong: 0.33

'Botany' is related to 'Plants' in the same way as 'Anthropology' is related to:

Options:









Question Number: 144 Question Id: 1194 Question Type: MCQ Option Shuffling: No

Correct : 1.0 Wrong : 0.33

C is taller than B, who is shorter than D. D is taller than C, who is shorter than E.

D is shorter than E, who is taller than A.

Who is the tallest of all?

Options:





_



D

E

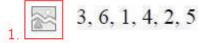


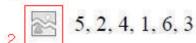
Question Number: 145 Question Id: 1195 Question Type: MCQ Option Shuffling: No

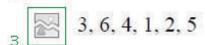
Correct : 1.0 Wrong : 0.33

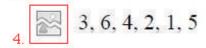
Arrange the following words in a meaningful logical sequence and choose the appropriate number sequence from the alternatives.

1. Locality 2. State 3. Member 4. Village 5. Nation 6 Family









Question Number: 146 Question Id: 1196 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.

1097, 368, 125, 44, 16, 8, 5

Options:















Question Number: 147 Question Id: 1197 Question Type: MCQ Option Shuffling: No

Correct : 1.0 Wrong : 0.33

If SIT = 66 and ROW = 50, then HOPE will be equal to:

Options:



128



88



64



28

Question Number: 148 Question Id: 1198 Question Type: MCQ Option Shuffling: No

Correct : 1.0 Wrong : 0.33

If 'HOSTILE' is coded as 'JMURKJG', then 'REQUEST' would be coded as:

Options:



TCSSGSV



PGPWCUR



TCSSGQV



TCSWCSV

Question Number: 149 Question Id: 1199 Question Type: MCQ Option Shuffling: No

Correct : 1.0 Wrong : 0.33

Shovan walked 5 km towards South-West, took a right turn and walked 3 km. Then he turned right again and walked 9 km. How far and in which direction is Shovan now with respect to his starting point?

Options:



4 km North



5 km North



4 km North-East

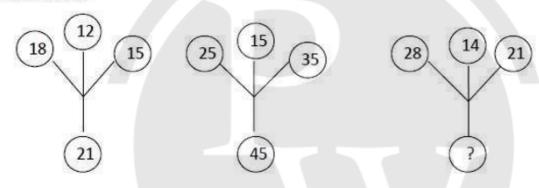


5 km North-East

Question Number: 150 Question Id: 1200 Question Type: MCQ Option Shuffling: No

Correct: 1.0 Wrong: 0.33

The numbers in the following figures follow a pattern. Which number would replace the question mark?



Options:



25



42



35



49