1. Options shown in green color and with icon are correct.

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

**Question Paper Name:** Junior Engineer 29th Aug Shift 1 Actual

**Subject Name:** Junior Engineer

**Creation Date:** 2015-08-18 12:41:41.0

**Cut Off:** 0

**Duration:** 120

**Number of Questions:** 150

**Total Marks:** 150.0

**Group Number:** 1

**Group Id:** 10

**Group Maximum Duration:** 0

**Group Minimum Duration:** 120

**Revisit allowed for view?** No

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**Break time:** 0

**Group Marks:** 150.0

**Section Id:** 10

**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:** 10

**Question Shuffling Allowed:** Yes

**Question Number:** 1  **Question Id:** 1801  **Question Type:** MCQ  **Option Shuffling:** No

**Correct:** 1.0  **Wrong:** 0.33
Which one of the following thermodynamics process approximates the steaming of food in a pressure cooker?

a. Isenthalpic  
b. Isobaric  
c. Isochoric  
d. Isothermal

Options:

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

Question Number : 2  Question Id : 1802  Question Type : MCQ  Option Shufflling : No  
Correct : 1.0  Wrong : 0.33

Ice kept in a well-insulated thermoflask is an example of which system?

a. Closed system  
b. Isolated system  
c. Open system  
d. Non-flow adiabatic system

Options:

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

Question Number : 3  Question Id : 1803  Question Type : MCQ  Option Shuffling : No  
Correct : 1.0  Wrong : 0.33

The two reference fuels used for cetane rating are

a. Cetane and iso-octane  
b. Cetane and tetraethyl lead  
c. Cetane and n-heptane  
d. Cetane and α-methyl naphthalene

Options:

1. ✗ a  
2. ✗ b  
3. ✗ c  
4. ✓ d

Question Number : 4  Question Id : 1804  Question Type : MCQ  Option Shuffling : No  
Correct : 1.0  Wrong : 0.33
In some carburettors, meter rod and economiser device are used for
a. Cold starting
b. Idling
c. Power enrichment
d. Acceleration

Options:
1. ** a
2. ** b
3. ✓ c
4. ** d

Question Number : 5 Question Id : 1805 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Where does mixing of fuel and air take place in case of diesel engine?

a. Injection pump
b. Injector
c. Engine cylinder
d. Inlet manifold

Options:
1. ** a
2. ** b
3. ✓ c
4. ** d

Question Number : 6 Question Id : 1806 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Heat pipe is widely used now a days, because

a. It acts as an insulator
b. It acts as conductor and insulator
c. It acts as a superconductor
d. It acts as afin

Options:
1. ** a
2. ** b
3. ✓ c
4. ** d

Question Number : 7 Question Id : 1807 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33
Ice is very close to a

a. Gray body
b. Black body
c. White body
d. Specular body

Options:
1. ✗ a
2. ✓ b
3. ✗ c
4. ✗ d

Question Number : 8  Question Id : 1808  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33

Misrun is a casting defect which occurs due to

a. Very high pouring temperature of the metal
b. Insufficient fluidity of the molten metal
c. Absorption of gases by the liquid metal
d. Improper alignment of the mould flasks

Options:
1. ✗ a
2. ✓ b
3. ✗ c
4. ✗ d

Question Number : 9  Question Id : 1809  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33

In which of the following are metal moulds used

a. Green sand mould
b. Dry sand mould
c. Die casting process
d. Loam moulding

Options:
1. ✗ a
2. ✗ b
3. ✓ c
Which one of the following is an advantage of forging?

a. Good surface finish
b. Low tooling cost
c. Close tolerance
d. Improved physical property

Options:
1. ** a
2. ** b
3. ** c
4. ✓ d

In the forging operation, fullering is done to

a. Draw out the material
b. Bend the material
c. Upset the material
d. Extrude the material

Options:
1. ✓ a
2. ** b
3. ** c
4. ** d
In oxy-acetylene gas welding, for complete combustion, the volume of oxygen required per unit of acetylene is 

a. 1
b. 1.5
c. 2
d. 2.5

Options:
1. ✗ a
2. ✗ b
3. ✗ c
4. ✓ d

Question Number: 13  Question Id: 1813  Question Type: MCQ  Option Shuffling: No
Correct: 1.0  Wrong: 0.33

Oxyacetylene reducing flame is used while carrying out the welding on

a. Mild steel
b. High carbon steel
c. Gray cast iron
d. Alloy steels

Options:
1. ✗ a
2. ✓ b
3. ✗ c
4. ✗ d

Question Number: 14  Question Id: 1814  Question Type: MCQ  Option Shuffling: No
Correct: 1.0  Wrong: 0.33

Crater wear is predominant in

a. Carbon steel tools
b. Tungsten carbide tools
c. High speed steel tools
d. Ceramic tools

Options:
1. ✗ a
2. ✓ b
Question Number : 15  Question Id : 1815  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
An ideal current source has
   a. large value of voltage
   b. large value of current
   c. infinite internal resistance
   d. zero internal resistance

Options :
1. ✔ a
2. asterisk b
3. ✔ c
4. ✔ d

Question Number : 16  Question Id : 1816  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
Mesh analysis is based on
   a. Kirchhoff's Voltage law
   b. Kirchhoff's Current law
   c. Law of Conservation of Momentum
   d. Law of Conservation of Energy

Options :
1. ✔ a
2. asterisk b
3. asterisk c
4. asterisk d

Question Number : 17  Question Id : 1817  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
The RMS value of a sine wave is 100 A. Its peak value is
   a. 70.7 A
   b. 141 A
   c. 63.6 A
   d. 126 A

Options :
1. asterisk a
2. ✔ b
3. **c**
4. **d**

**Question Number : 18  Question Id : 1818  Question Type : MCQ  Option Shuffling : No**
Correct : 1.0  Wrong : 0.33

In a transformer, electric power is transferred from primary coil to secondary

a. through air

b. by electric field

c. through insulating medium

d. by magnetic flux

**Options :**
1. **a**
2. **b**
3. **c**
4. **d**

**Question Number : 19  Question Id : 1819  Question Type : MCQ  Option Shuffling : No**
Correct : 1.0  Wrong : 0.33

Which part of transformer is subjected to maximum heating

a. frame

b. core

c. oil

d. winding

**Options :**
1. **a**
2. **b**
3. **c**
4. **d**

**Question Number : 20  Question Id : 1820  Question Type : MCQ  Option Shuffling : No**
Correct : 1.0  Wrong : 0.33

Armature coil of a DC machine is usually made up of

a. mica

b. copper

c. brass

d. graphite
Question Number: 21  Question Id: 1821  Question Type: MCQ  Option Shuffling: No
Correct: 1.0  Wrong: 0.33
The output power of any electric motor is taken from

a. frame
b. commutator
c. coupling mounted on shaft
d. armature

Options:
1. ✗ a
2. ✓ b
3. ✗ c
4. ✗ d

Question Number: 22  Question Id: 1822  Question Type: MCQ  Option Shuffling: No
Correct: 1.0  Wrong: 0.33
The type of DC generator used for arc welding is

a. Series generator
b. Shunt generator
c. Cumulative Compound generator
d. Differential Compound generator

Options:
1. ✗ a
2. ✗ b
3. ✗ c
4. ✓ d

Question Number: 23  Question Id: 1823  Question Type: MCQ  Option Shuffling: No
Correct: 1.0  Wrong: 0.33
A metal bar may be heated electronically by

a. Emission heating
b. Dielectric heating
c. Induction heating
d. Conductive heating

Options:
1. ✗ a
2. ✗ b
3. ✓ c
4. ✗ d

Question Number : 24  Question Id : 1824  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33

Diesel engines used in power plants are usually

a. Air cooled
b. Supercharged
c. Horizontal
d. High Speed

Options:
1. ✗ a
2. ✓ b
3. ✗ c
4. ✗ d

Question Number : 25  Question Id : 1825  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33

Conduction electrons have more mobility than holes because they

a. are lighter
b. have negative charge
c. need less energy to move them
d. experience collision frequency

Options:
1. ✗ a
2. ✗ b
3. ✓ c
4. **d**

**Question Number : 26  Question Id : 1826  Question Type : MCQ  Option Shuffling : No**

Correct : 1.0  Wrong : 0.33

Valency of silicon is

a. 4

b. 3

c. 5

d. 2

**Options :**

1. ✔ a
2. ✗ b
3. ✗ c
4. ✗ d

**Question Number : 27  Question Id : 1827  Question Type : MCQ  Option Shuffling : No**

Correct : 1.0  Wrong : 0.33

The PN junction diode is a

a. passive device

b. vacuum tube

c. unilateral device

d. bilateral device

**Options :**

1. ✗ a
2. ✔ b
3. ✔ c
4. ✗ d

**Question Number : 28  Question Id : 1828  Question Type : MCQ  Option Shuffling : No**

Correct : 1.0  Wrong : 0.33

Reverse saturation current in germanium diode, is of the order of

a. 1 nano Ampere

b. 1 micro Ampere

c. 1 milli Ampere

d. 10 milli Ampere

**Options :**
Question Number : 29  Question Id : 1829  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33

A PIN diode is frequently used as a

a. peak clipper
b. voltage regulator
c. harmonic generator
d. switching diode for frequencies upto GHz range

Options :
1. * a
2. * b
3. * c
4. ✓ d

Question Number : 30  Question Id : 1830  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33

Lowest output resistance is obtained in the configuration

a. CE
b. CB
c. CC
d. CC and CE both equally

Options :
1. * a
2. * b
3. ✓ c
4. * d

Question Number : 31  Question Id : 1831  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
Ripple factor of a full wave rectifier without filter will be

a. 0.2
b. 0.48
c. 0.24
d. 1.21

The decimal equivalent of hexadecimal number BAD is

a. 111013
b. 5929
c. 3416
d. 2989

The system on which digital system usually operates is

a. binary
b. decimal
c. octal
d. hexa decimal

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

Options:
1.  a
2.  b
3. **c  
4. **d

Question Number : 34  Question Id : 1834  Question Type : MCQ  Option Shuffling : No  
Correct : 1.0  Wrong : 0.33

A+AB gets simplified to

a. A+B  
b. AB  
c. A  
d. B

Options :
1. ** a  
2. ** b  
3. ✔ c  
4. ** d

Question Number : 35  Question Id : 1835  Question Type : MCQ  Option Shuffling : No  
Correct : 1.0  Wrong : 0.33

A clay sample has a void ratio 0.54 in dry state. The specific gravity of soil solids is 2.7. What is the shrinkage limit of the soil?

a. 8.5%  
b. 10.0%  
c. 17.0%  
d. 20.0%

Options :
1. ** a  
2. ** b  
3. ✔ c  
4. ✔ d

Question Number : 36  Question Id : 1836  Question Type : MCQ  Option Shuffling : No  
Correct : 1.0  Wrong : 0.33
Among the clay minerals, the one having the maximum swelling tendency is

a. Kaolinite
b. Illite
c. Montmorillonite
d. halloysite

Options :
1. ** a
2. ** b
3. ✔️ c
4. ** d

Question Number : 37  Question Id : 1837  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
The reinforced concrete beam curved in plane is designed for

a. Bending moment and shear
b. Bending moment and torsion
c. Bending moment
d. Bending moment, shear and torsion

Options :
1. ** a
2. ** b
3. ** c
4. ✔️ d

Question Number : 38  Question Id : 1838  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
The type of stress induced in the foundation bolts fixing a column to its footing is

a. Pure compression
b. Bearing
c. Pure tension
d. Bending

Options :
1. ** a
2. ** b
3. ✔️ c
4. ** d

Question Number : 39  Question Id : 1839  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
Which of the following tape is least affected by temperature changes and is highly precise

a. Linen tape
b. Metallic tape
c. Steel tape
d. Invar tape

Options :
1. ** a
2. ** b
3. ** c
4. ** d

Question Number : 40  Question Id : 1840  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
A series of closely spaced contour lines represents a

a. Steep slope
b. Gentle slope
c. Uniform slope
d. Plane slope

Options :
1. ** a
2. ** b
3. ** c
4. ** d

Question Number : 41  Question Id : 1841  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
The process of inspiring the subordinates to do a work or achieve an objective is called as

a. Management
b. Supervision
c. Motivation
d. Communication
Question Number : 42  Question Id : 1842  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
As per IS specification, the maximum final setting time for ordinary portland cement should be

a. 30 minutes

b. 1 hour

c. 6 hours

d. 10 hours

Question Number : 43  Question Id : 1843  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
Bleeding of concrete is said to occur when

a. Finer particles settle down at the bottom

b. Coarser particles get separated

c. Cement paste rises to the surface of concrete

d. Finer particles collect in isolated pockets

Question Number : 44  Question Id : 1844  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
The capillary rise at 20°C in clean glass tube of 1 mm diameter, containing water is

a. 15 mm
b. 50 mm
c. 20 mm
d. 30 mm

Options:
1. ✗ a
2. ✗ b
3. ✗ c
4. ✔ d

Question Number: 45  Question Id: 1845  Question Type: MCQ  Option Shuffling: No
Correct: 1.0  Wrong: 0.33

Newton's law of viscosity depends upon the

a. Stress and strain in the fluid
b. Shear stress, pressure and velocity
c. Shear stress and rate of strain
d. Viscosity and shear stress

Options:
1. ✗ a
2. ✔ b
3. ✔ c
4. ✔ d

Question Number: 46  Question Id: 1846  Question Type: MCQ  Option Shuffling: No
Correct: 1.0  Wrong: 0.33

Which one of the following is defined as force per unit length

a. Surface tension
b. Compressibility
c. Capillarity
d. Viscosity

Options:
1. ✔ a
2. ✗ b
3. ✗ c
4. ** d

Question Number : 47  Question Id : 1847  Question Type : MCQ  Option Shuffling : No  
Correct : 1.0  Wrong : 0.33

Which of the following are needed both for protection and metering?

a. Wattmeters
b. Instrument transformers
c. Energy meters
d. Power factor meters

Options :
1. ** a
2. ✔️ b
3. ✔️ c
4. ** d

Question Number : 48  Question Id : 1848  Question Type : MCQ  Option Shuffling : No  
Correct : 1.0  Wrong : 0.33

In a thermocouple temperature transducer, the output voltage is usually measured by

a. high resistance ammeter
b. high resistance voltmeter
c. high resistance milli-voltmeter
d. Low resistance voltmeter/ammeter

Options :
1. ** a
2. ✔️ b
3. ✔️ c
4. ** d

Question Number : 49  Question Id : 1849  Question Type : MCQ  Option Shuffling : No  
Correct : 1.0  Wrong : 0.33

A moving iron instrument gives correct reading when used at

a. low frequency
b. high frequency
c. only one frequency
d. all frequencies up to a certain value

Options :
1. ** a
2. ✔️ b
3. ✔️ c
4. ** d

Question Number : 50  Question Id : 1850  Question Type : MCQ  Option Shuffling : No  
Correct : 1.0  Wrong : 0.33
Induction wattmeter can be used in
a. AC circuit only
b. DC circuit only
c. both AC and DC circuit
d. AC 3 phase only

Options:
1. ✓ a
2. □ b
3. □ c
4. □ d

Question Number : 51  Question Id : 1851  Question Type : MCQ  Option Shuffling : No 
Correct : 1.0  Wrong : 0.33

Assertion (A): Shunt of an ammeter has a low resistance.
Reason (R): Shunt may be connected in series or in parallel with ammeter.
a. Both A and R are true and R is correct explanation of A
b. Both A and R are true, but R is not correct explanation of A
c. A is true, R is false
d. A is false, R is true

Options:
1. □ a
2. □ b
3. ✓ c
4. □ d

Question Number : 52  Question Id : 1852  Question Type : MCQ  Option Shuffling : No 
Correct : 1.0  Wrong : 0.33

The prescribed water consumption for restaurants is
a. 100 litres per seat per day
b. 125 litres per seat per day
c. 70 litres per seat per day
d. 50 litres per seat per day

Options:
1. □ a
2. □ b
3. ✓ c
4. □ d

Question Number : 53  Question Id : 1853  Question Type : MCQ  Option Shuffling : No 
Correct : 1.0  Wrong : 0.33
The permissible/desirable drinking water standard for total dissolved solids is

a. 600 mg/l
b. 500 mg/l
c. 400 mg/l
d. 1000 mg/l

Options:
1. ** a
2. ✓ b
3. ** c
4. ** d

Question Number : 54  Question Id : 1854  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33

In BOD3 determination of sewage, the initial dissolved oxygen is measured to be 8.9 mg/l, however, after 3 day incubation at 27°C temperature, the dissolved oxygen is found to be 1.9 mg/l. If the dilution factor is 1:50, the BOD5 of the sewage would be

a. 350 mg/l
b. 35 mg/l
c. cannot be determined
d. 7.0 mg/l

Options:
1. ** a
2. ** b
3. ✓ c
4. ** d

Question Number : 55  Question Id : 1855  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33

The continuous exposure of pollutant benzo (α) pyrene may cause

a. damage of trachea
b. swelling in bronchus
c. respiratory system failure
d. lung cancer

Options:
1. ** a
2. ** b
3. ** c
4. ✓ d

Question Number : 56  Question Id : 1856  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
The noise level of 10 dB is how many times more powerful than the noise level of 1 dB

- a. 100 times
- b. 10 times
- c. 1000 times
- d. 10000 times

Options:
1. * a
2. ✔ b
3. * c
4. * d

Question Number: 57  Question Id: 1857  Question Type: MCQ  Option Shuffling: No
Correct: 1.0  Wrong: 0.33
The green house gases as per their decreasing order of effectiveness are

- a. CFC, N₂O, CO₂, CH₄
- b. CO₂, CH₄, N₂O and CFC
- c. CH₄, CO₂, N₂O and CFC
- d. CFC, CH₄, CO₂, and N₂O

Options:
1. ✔ a
2. * b
3. * c
4. * d

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

Question Number: 58  Question Id: 1858  Question Type: MCQ  Option Shuffling: No
Correct: 1.0  Wrong: 0.33
Which of the following acts as the central nervous system for other components of the computer system?

- a. Registers
- b. Primary memory
- c. Arithmetic and logic unit
- d. Control unit

Options:
1. * a
2. * b
3. * c
4. ✔ d

Question Number: 59  Question Id: 1859  Question Type: MCQ  Option Shuffling: No
Correct: 1.0  Wrong: 0.33
Which of the following is not a pointing device?

a. Mouse
b. Trackball
c. Joystick
d. Keyboard

Options :
1. **a**
2. *b*
3. *c*
4. ✓ d

Which of the following is not a valid property to characterize storage unit?

a. Storage capacity
b. Size
c. Access time
d. Cost per bit of storage

Options :
1. **a**
2. ✓ b
3. * c
4. **d**

The time elapsed between the submission of a job and obtaining the results is known as

a. Seek time
b. Latency
c. Turnaround time
d. Execution time

Options :
1. **a**
2. *b*
3. ✓ c
4. * d
The binary representation of the decimal number 45.25 is

a. \((101101.01)_2\)
b. \((101101.10)_2\)
c. \((101010.01)_2\)
d. \((101010.10)_2\)

Options :
1. ✔ a
2. ❌ b
3. ❌ c
4. ❌ d

Question Number : 63  Question Id : 1863  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33

Considering X and Y as binary variables, the Boolean expression \(X + Y + 1\) 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 : 1864  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33

In assembly language _________ are used to represent operation codes.

a. Alphabets
b. Pseudo codes
c. Mnemonics
d. Symbols

Options :
1. ❌ a
2. ❌ b
3. ✔ c
4. ❌ d

Question Number : 65  Question Id : 1865  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
Which of the following is not a word processor?

a. MS-Word  
b. Notepad  
c. Wordpad  
d. Wordpress

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

The length of an IPv4 address is

a. 8 bits  
b. 16 bits  
c. 32 bits  
d. 64 bits

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

Internet Explorer is a

a. Web browser  
b. Web search engine  
c. Hypertext transfer protocol  
d. Web data store

Options:
1. a  
2. b  
3. c  
4. d
A square shaped plane rests on HP with its plane lying on HP. Its front view would appear as a:

a. square of reduced size
b. square of equal size
c. rhombus
d. straight line

Options:
1. ★ a
2. ★ b
3. ★ c
4. ✔ d

Question Number: 69  Question Id: 1869  Question Type: MCQ  Option Shuffling: No
Correct: 1.0  Wrong: 0.33

A joint that facilitates rotation about axis but arrests displacement is a:

a. cotter joint
b. knuckle joint
c. spigot joint
d. socket joint

Options:
1. ★ a
2. ✔ b
3. ★ c
4. ★ d

Question Number: 70  Question Id: 1870  Question Type: MCQ  Option Shuffling: No
Correct: 1.0  Wrong: 0.33

A one metre distance is to be measured in decimetre, centimetre and millimetre units. Which type of scale do you suggest?

a. plain scale
b. comparative scale
c. diagonal scale
d. Either plain scale or diagonal scale will serve the purpose

Options:
1. ★ a
2. ★ b
3. ✔ c
4. ★ d

Question Number: 71  Question Id: 1871  Question Type: MCQ  Option Shuffling: No
Correct: 1.0  Wrong: 0.33
A circle rolls without slipping on a flat surface. The path traced by a point, lying on circle's periphery during its rolling is:
   a. Involute
   b. Hyperbola
   c. Epicycloid
   d. Cycloid

Options:
1. **a**
2. **b**
3. **c**
4. ✔️ d

Question Number : 72  Question Id : 1872  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
Vertical edges of an object appear in its isometric view as:
   a. Vertical
   b. Inclined at 30° clockwise
   c. Inclined at 30° counter clockwise
   d. Inclined at 15°

Options:
1. ✔️ a
2. ✗ b
3. ✗ c
4. ✗ d

Question Number : 73  Question Id : 1873  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
An object of mass m at rest is acted upon by a force. The velocity-time graph (velocity on y-axis and time on x-axis) is found to be a straight line passing through origin and inclined to x-axis with a slope c. The force acting on the object is
   a. 0
   b. \( \frac{m}{c} \)
   c. \( mc \)
   d. 2mc.

Options:
1. ✔️ a
2. ✗ b
3. ✔ c
4. ✗ d

Question Number : 74  Question Id : 1874  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
The SI unit of gravitational constant, $G$, is

a. $N \text{m}^2 \text{kg}^{-2}$  
b. $N \text{m}^{-1} \text{kg}^{-2}$  
c. $N \text{kg}^{-2} \text{m}^{-2}$  
d. $m^2 \text{kg}^{-1} \text{s}^{-2}$.

Question Number : 75  Question Id : 1875  Question Type : MCQ  Option Shuffling : No  
Correct : 1.0  Wrong : 0.33  
A force acting on an object of mass $m$ changes its velocity during its course of motion. In which of the following cases, the work done by the force is maximum?

a. When velocity of the object changes from $0$ to $v \text{ m/s}$

b. When velocity of the object changes from $v \text{ m/s}$ to $2v \text{ m/s}$

c. When velocity of the object changes from $2v \text{ m/s}$ to $3v \text{ m/s}$

d. When velocity of the object changes from $3v \text{ m/s}$ to $4v \text{ m/s}$

Question Number : 76  Question Id : 1876  Question Type : MCQ  Option Shuffling : No  
Correct : 1.0  Wrong : 0.33  
In a longitudinal sound wave, the particles of the medium move

a. about their position of rest in a direction parallel to the direction of propagation of disturbance

b. about their position of rest in a direction perpendicular to the direction of propagation of disturbance

c. from one place to another in a direction parallel to the direction of propagation of disturbance

d. From one place to another in a direction perpendicular to the direction of propagation of disturbance

Question Number : 77  Question Id : 1877  Question Type : MCQ  Option Shuffling : No  
Correct : 1.0  Wrong : 0.33  

Rays of light are evident on a concave mirror parallel to the principal axis. After reflection, they meet at

a. Infinity
b. the centre of curvature
c. at focus
d. At a point half way to the focus

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

Question Number: 78  Question Id: 1878  Question Type: MCQ  Option Shuffling: No
Correct: 1.0  Wrong: 0.33

A conducting wire of length l and resistance R is cut into two equal parts. The two parts are then connected in parallel. The resistance of the combination is

a. R/2
b. R/4
c. R
d. 2R.

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

Question Number: 79  Question Id: 1879  Question Type: MCQ  Option Shuffling: No
Correct: 1.0  Wrong: 0.33

A student heats a beaker containing water continuously and measures the temperature as a function of time. She found that the temperature of water increases with time. After sometime, it becomes constant in spite of heat being supplied. The temperature remains constant up to a certain stage. The value of the constant temperature of water is

a. 25°C
b. 45°C
c. 85°C
d. 100°C

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

Question Number: 80  Question Id: 1880  Question Type: MCQ  Option Shuffling: No
Which one of the following is correct regarding the electrolytic refining of impure copper?

a. Impure copper is taken as the cathode.

b. Pure copper is deposited at the anode.

c. Pure copper is deposited at the cathode.

d. Impurities are settled as the cathode mud.

Options:
1. ✗ a
2. ✗ b
3. ✓ c
4. ✗ d

On heating with an alkaline solution of KMnO₄, ethanol produces

a. Ethanoic acid

b. Ethanol

c. Methanol

d. Methanoic acid

Options:
1. ✓ a
2. ✗ b
3. ✗ c
4. ✗ d

A triatomic oxide of an element ‘X’ reacts with hydrochloric acid to produce the solution of a diatomic salt and water. Which of the following is correct about the formula of the oxide and its chemical nature?

a. The formula is XO and it is acidic in nature.

b. The formula is XO and it is basic in nature.

c. The formula is X₂O and it is acidic in nature.

d. The formula is X₃O and it is basic in nature.

Options:
1. ✗ a
2. ✗ b
3. ✗ c
4. ✓ d
Lime water turns milky on passing through it. On passing excess of carbon dioxide gas, milkiness disappears. It is due to the formation of

a. CaCO₃
b. CaHCO₃
c. Ca (HCO₃)₂
d. Ca(OH)₂

Options:
1. ** a
2. ** b
3. ✔ c
4. ✔ d

Question Number : 84  Question Id : 1884  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
Eka-aluminium predicted by Mendeleev was found to have properties similar to

a. Scandium
b. Gallium
c. Germanium
d. Thallium

Options:
1. ** a
2. ✔ b
3. ✔ c
4. ✔ d

Question Number : 85  Question Id : 1885  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
One of the causes of death of marine birds is

a. Leaked oil from ships
b. Overfishing by human beings
c. Oceanic waves
d. Wet feathers

Options:
1. ✔ a
2. ** b
3. ** c
4. ** d

Question Number : 86  Question Id : 1886  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
Which is the reproductive organ of Angiosperms?

- a. Root hairs
- b. Nodes of branches
- c. Flower
- d. Fruit

Options:
1. ✗ a
2. ✗ b
3. ✓ c
4. ✗ d

Question Number : 87  Question Id : 1887  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33

Bt Cotton is
- a. Hybrid Cotton
- b. a new species of Cotton
- c. a wild species of Cotton
- d. Genetically modified Cotton

Options:
1. ✗ a
2. ✗ b
3. ✓ c
4. ✓ d

Question Number : 88  Question Id : 1888  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33

One feature of mammals common to all mammals without exception is
- a. presence of hair
- b. presence of mammary glands
- c. giving birth to babies (viviparity)
- d. seven vertebrae in the neck

Options:
1. ✗ a
2. ✓ b
3. ✓ c
4. ✗ d

Question Number : 89  Question Id : 1889  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
When a scientific name is written, the names of genus and species are
a. both begin with small letters
b. both begin with capital letters
c. genus name is begun with capital letter and species name with small letter
d. genus name is begun with small letter and species name with capital letter

Options :
1. ** a
2. ** b
3. ✔ c
4. ** d

Question Number : 90  Question Id : 1890  Question Type : MCQ  Option Shuffling : No  
Correct : 1.0  Wrong : 0.33

When you chew bread it begins to taste sweet because
a. saliva is sweet to taste
b. saliva releases the sugar in bread
c. saliva turns starch in bread into sugar
d. saliva turns the protein in bread into amino acids

Options :
1. ** a
2. ** b
3. ✔ c
4. ** d

Question Number : 91  Question Id : 1891  Question Type : MCQ  Option Shuffling : No  
Correct : 1.0  Wrong : 0.33

Let \( x \) be the greatest number that divides 55, 127 and 175 leaving the same remainder in each case. The remainder in each case is
a. 3
b. 5
c. 7
d. 9

Options :
1. ** a
2. ** b
3. ✔ c
4. ** d

Question Number : 92  Question Id : 1892  Question Type : MCQ  Option Shuffling : No  
Correct : 1.0  Wrong : 0.33
LCM of the numbers a, b, c, and d, where \( a = 2^5 \times 11^3 \times 13^4 \), \( b = 2^4 \times 11^4 \times 13^5 \), \( c = 2^6 \times 11^5 \times 13^3 \) and \( d = 2^4 \times 11^4 \times 13^4 \) is

a. \( (2 \times 11 \times 13)^5 \)

b. \( 2^5 \times 11^4 \times 13^5 \)

c. \( (2 \times 11 \times 13)^4 \)

d. \( 2^4 \times 11^5 \times 13^4 \)

Options:

1. ✔ a
2. ✗ b
3. ✗ c
4. ✗ d

Question Number : 93  Question Id : 1893  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33

In an examination, a student secured 30% marks and failed by 42 marks and another student who secured 50% marks, got 42 more marks than the minimum marks to pass. The pass percentage is

a. 33

b. 35

c. 38

d. 40

Options:

1. ✗ a
2. ✗ b
3. ✗ c
4. ✔ d

Question Number : 94  Question Id : 1894  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33

If \( A : B = 2 : 3 \), \( 5B = 4C \) and \( 2C = 5D \), then \( A : B : C : D \) is

a. 6:8:12:15

b. 8:12:15:6

c. 8:15:12:6

d. 8:12:6:15

Options:

1. ✗ a
2. ✔ b
3. ✗ c
4. ✗ d

Question Number : 95  Question Id : 1895  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
Ratio of monthly incomes of A and B is 4:3 and that of their expenditures is 3:2. If each of them saves Rs 5000 per month, then the sum of monthly incomes of A and B in Rs is

a. 21000  
b. 28000  
c. 35000  
d. 42000

Options :
1. ✗ a  
2. ✗ b  
3. ✓ c  
4. ✗ d

Question Number : 96  Question Id : 1896  Question Type : MCQ  Option Shuffling : No  
Correct : 1.0  Wrong : 0.33

Two equal jars are filled with the solutions of spirit and water. In the first jar, the ratio of spirit and water is 5:7 and that in the second is 7:13. The contents of the jars are then emptied into a single container. The ratio of spirit and water in it is

a. 23:37  
b. 37:23  
c. 35:33  
d. 3:4

Options :
1. ✓ a  
2. ✗ b  
3. ✗ c  
4. ✗ d

Question Number : 97  Question Id : 1897  Question Type : MCQ  Option Shuffling : No  
Correct : 1.0  Wrong : 0.33

150 grams of an alloy of copper and zinc contains 60% copper (by weight). The quantity of copper (in grams) must be mixed up with this alloy so as to get another alloy containing 70% copper is

a. 60  
b. 55  
c. 50  
d. 45

Options :
1. ✗ a  
2. ✗ b  
3. ✓ c  
4. ✗ d

Question Number : 98  Question Id : 1898  Question Type : MCQ  Option Shuffling : No  
Correct : 1.0  Wrong : 0.33
A shopkeeper sells an article for Rs 96 and earns double the profit than he would have earned had he sold it for Rs 88. If he sells the article at Rs 110, his percent profit is

a. 20
b. 25
c. 37.5
d. 34.1

Options :
1. * a
2. * b
3. ✓ c
4. * d

Question Number : 99  Question Id : 1899  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33

The marked price of a TV is Rs 32500. After allowing a discount of 20% to a customer, a shopkeeper still makes a profit of 30%. If he sells the TV at the marked price, his profit percent is

a. 50
b. 56.8
c. 62.5
d. 70

Options :
1. * a
2. * b
3. ✓ c
4. * d

Question Number : 100  Question Id : 1900  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33

A boat moves down stream at the rate of 1 km in $\frac{7}{2}$ minutes and upstream at the rate of 5 km an hour. The speed of the boat (in km/hour) in still water is

a. 3
b. $\frac{4}{2}$
c. 5
d. $\frac{6}{2}$

Options :
1. * a
2. * b
3. * c
4. ✓ d

Question Number : 101  Question Id : 1901  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
A man takes 6 hours 15 minutes in walking to a certain place and riding back. He would have gained 2 hours 40 minutes by riding both ways. How long would he take to walk both ways?

a. 8 hours 35 minutes
b. 8 hours 55 minutes
c. 9 hours 55 minutes
d. 10 hours 35 minutes

Options:
1. *a
2. ✓b
3. *c
4. *d

Question Number: 102  Question Id: 1902  Question Type: MCQ  Option Shuffling: No  Correct: 1.0  Wrong: 0.33

A loan has to be returned in two equal annual installments. If the rate of interest is 16% per annum compounded annually and each installment is of Rs 3364, then the loan is of Rs

a. Rs 5328
b. Rs 5400
c. Rs 5700
d. Rs 6728

Options:
1. * a
2. ✓ b
3. * c
4. * d

Question Number: 103  Question Id: 1903  Question Type: MCQ  Option Shuffling: No  Correct: 1.0  Wrong: 0.33

Simple interest on a certain sum is $\frac{3}{16}$ of the principal. If the numbers representing the rate of interest in percent per annum and time in years be equal, then the rate of interest is

a. 2.5
b. 3
c. 3.5
d. 4

Options:
1. ✓ a
2. * b
3. * c
4. * d

Question Number: 104  Question Id: 1904  Question Type: MCQ  Option Shuffling: No  Correct: 1.0  Wrong: 0.33
A and B can do a piece of work in 18 days, B and C in 24 days and A and C in 36 days. In what time (in days) can A do it alone?

a. \( \frac{28}{3} \)
b. 48
c. 54
d. \( \frac{56}{5} \)

Options:
1. ★ a
2. ✔ b
3. ★ c
4. ★ d

Two pipes A and B can fill a cistern in 10 and 24 minutes respectively. Both pipes having being opened at the same time. When should the first pipe be turned off so that the cistern may be completely filled in 9 minutes?

a. 6 minutes 15 seconds
b. 5 minutes 30 seconds
c. 3 minutes 45 seconds
d. 4 minutes 45 seconds

Options:
1. ✔ a
2. ★ b
3. ★ c
4. ★ d

If the sum of five consecutive positive integers is 40, then the average of first and last integers is

a. 6
b. 8
c. 9
d. 10

Options:
1. ★ a
2. ✔ b
3. ★ c
4. ★ d
Five years ago, the average age of A, B and C was 20 years. Four years ago, the average age of A and B was 19 years. C's present age (in years)

a. 23
b. 25
c. 27
d. 29

Options :
1. ★ a
2. ★ b
3. ★ c
4. ✔ d

---

Question Number : 108  Question Id : 1908  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33

The values of a, for which the equation
\[ x^2 - (3a - 1)x + 2a^2 + 2a - 11 = 0 \]
will have equal roots are

a. 4, 5
b. 5, 6
c. 6, 9
d. 5, 9

Options :
1. ★ a
2. ★ b
3. ★ c
4. ✔ d

---

Question Number : 109  Question Id : 1909  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33

The quadratic equation, whose roots are reciprocal of the roots of
\[ 3x^2 - 7x + 8 = 0, \]
is

a. \( 8x^2 - 7x + 3 = 0 \)
b. \( 8x^2 + 7x - 3 = 0 \)
c. \( 8x^2 - 7x - 3 = 0 \)
d. \( 8x^2 + 7x + 3 = 0 \)

Options :
1. ✔ a
2. ★ b
3. ★ c
4. ★ d

---

Question Number : 110  Question Id : 1910  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
One of the factors of \((x + 2)(x - 3)(x + 4)(x - 5) + 40\) is

a. \(x^2 + x - 16\)
b. \(x^2 - x - 16\)
c. \(x^2 + x - 10\)
d. \(x^2 - x + 10\)

Options :
1. ✗ a
2. ✓ b
3. ✗ c
4. ✗ d

Question Number : 111  Question Id : 1911  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33

Factorization of \(x^4 - 5x^3 + 14x^2 - 20x + 16\) is

a. \((x^2 - 2x + 4)(x^2 - 3x + 4)\)
b. \((x^2 - 2x - 4)(x^2 - 3x - 4)\)
c. \((x^2 + 2x + 4)(x^2 - 3x + 4)\)
d. \((x^2 + 2x - 4)(x^2 - 3x - 4)\)

Options :
1. ✓ a
2. ✗ b
3. ✗ c
4. ✗ d

Question Number : 112  Question Id : 1912  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33

If the sums of first \(n\) terms of two arithmetic progressions are in the ratio \((2n+1):(n+1)\), then the ratio of their 10th terms is

a. \(39:20\)
b. \(37:22\)
c. \(37:19\)
d. \(21:11\)

Options :
1. ✓ a
2. ✗ b
3. ✗ c
4. ✗ d

Question Number : 113  Question Id : 1913  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33

The sum of the infinite geometric series \(10 + \frac{8}{5} + \frac{2}{5} + \ldots \ldots \ldots \) is

a. 42
b. 48
c. 50
d. 52
The value of \( \tan 10^\circ \cdot \tan 25^\circ \cdot \tan 45^\circ \cdot \tan 65^\circ \cdot \tan 80^\circ / (\sin^2 69^\circ + \sin^2 21^\circ) + (\cos^2 51^\circ + \cos^2 39^\circ) \) is

a. 2
b. 1
c. \( \frac{1}{2} \)
d. \( \frac{1}{4} \)

An observer 1.5 m tall is 45 m away from a tower. The angle of elevation of the top of the tower from his eyes is 300. The height (in m) of the tower is approximately

a. 25.9
b. 27.5
c. 27.8
d. 29.9
Match List 1 with List 2 and select the correct answer from the codes given below in the list

<table>
<thead>
<tr>
<th>List 1 (King)</th>
<th>List 2 (Kingdom)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Pradyota</td>
<td>1. Magadha</td>
</tr>
<tr>
<td>B. Udayana</td>
<td>2. Vatsa</td>
</tr>
<tr>
<td>C. Prasenjita</td>
<td>3. Avanthi</td>
</tr>
<tr>
<td>D. Ajatsatr</td>
<td>4. Kosala</td>
</tr>
</tbody>
</table>

**Options**:
1. **a**
2. **b**
3. **c**
4. **d**

**Question Number**: 117  **Question Id**: 1917  **Question Type**: MCQ  **Option Shuffling**: No  **Correct**: 1.0  **Wrong**: 0.33

Who among the following was the first Bhakti saint to use Hindi for propagation of his message?

- a. Dadu
- b. Kabir
- c. Ramananda
- d. Tulsidas

**Options**:
1. **a**
2. **b**
3. **c**
4. **d**

**Question Number**: 118  **Question Id**: 1918  **Question Type**: MCQ  **Option Shuffling**: No  **Correct**: 1.0  **Wrong**: 0.33

Who was the first Indian native ruler to accept the system of Subsidiary Alliance?

- a. Scindia of Gwalior
- b. Nizam of Hyderabad
- c. Dalip Singh of Punjab
- d. Gaikwad of Baroda

**Options**:
1. **a**
2. ✔️ **b**
Question Number : 119  Question Id : 1919  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
Which of the following is not correctly matched?

(Country-Capital)
   a. Indonesia-Jakarta
   b. Maldives-Mali
   c. North Korea-Seoul
   d. Zimbabwe-Harare

Options :
1. ★ a
2. ★ b
3. ✓ c
4. ★ d

Question Number : 120  Question Id : 1920  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
If a small raindrop falls through air,
   a. Its velocity goes on decreasing
   b. Its velocity goes on increasing
   c. Its value goes on increasing for some time and then becomes constant
   d. It falls with constant speed for some time and then its velocity increases

Options :
1. ✓ a
2. ★ b
3. ★ c
4. ★ d

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

Question Number : 121  Question Id : 1921  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
Neap tides occur during which of the following phases of moon
   a. First quarter only
   b. First and Third quarter
   c. Second and third quarter
   d. Fourth quarter

Options :
1. ★ a
2. ✓ b
3. ★ c
4. ** d

Question Number : 122  Question Id : 1922  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
If a moving body doubles its velocity, then its kinetic energy becomes

a. double
b. four times
c. same
d. three times

Options :
1. ** a
2. ✔ b
3. * c
4. * d

Question Number : 123  Question Id : 1923  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
The blackboard seems black because it

a. reflects every colour
b. does not reflect any colour
c. absorbs black colour
d. reflects black colour

Options :
1. ** a
2. ✔ b
3. * c
4. * d

Question Number : 124  Question Id : 1924  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
The magnetic lines of force produced through a bar magnet

a. cross inside the magnetic body
b. only cross across the neutral point of the magnet
c. only cross across the north pole and south pole
d. does not cross anywhere in the magnet

Options :
1. ** a
2. * b
3. * c
4. ✔ d

Question Number : 125  Question Id : 1925  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
The schedule of the Constitution of India which contains specific provisions for the administration and control of scheduled areas in several states?

a. Third  
b. Fifth  
c. Seventh  
d. Ninth

Options:
1. ✗ a  
2. ✔ b  
3. ✗ c  
4. ✗ d

Question Number : 126  Question Id : 1926  Question Type : MCQ  Option Shuffling : No  
Correct : 1.0  Wrong : 0.33

Who among the following Prime Ministers resigned before facing a vote of no-confidence in the Lok Sabha?

a. Chandra Sekhar  
b. Morarji Desai  
c. Chaudhary Charan Singh  
d. V.P. Singh

Options:
1. ✗ a  
2. ✗ b  
3. ✔ c  
4. ✗ d

Question Number : 127  Question Id : 1927  Question Type : MCQ  Option Shuffling : No  
Correct : 1.0  Wrong : 0.33

When was the Jawahar Rojgar Yojana launched?

a. 1985  
b. 1987  
c. 1989  
d. 1991

Options:
1. ✗ a  
2. ✗ b  
3. ✔ c  
4. ✗ d

Question Number : 128  Question Id : 1928  Question Type : MCQ  Option Shuffling : No  
Correct : 1.0  Wrong : 0.33
National Agricultural Insurance Scheme replacing Comprehensive Corp Insurance Scheme was introduced in the year?

a. 1997  
b. 1998  
c. 1999  
d. 2000  

Which of the following pairs are correctly matched

<table>
<thead>
<tr>
<th>Enterprise</th>
<th>Industrial Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>VSNL</td>
<td>Bharati Group</td>
</tr>
<tr>
<td>Mundra SEZ</td>
<td>Adani Group</td>
</tr>
<tr>
<td>CMC Ltd</td>
<td>Tata Group</td>
</tr>
<tr>
<td>IPCL</td>
<td>Reliance Group</td>
</tr>
</tbody>
</table>

Select the correct answer using the codes given below

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

Merdeka cup is associated with

a. Cricket  
b. Football  
c. Rugby  
d. Hockey  

Options:
Question Number: 131  Question Id: 1931  Question Type: MCQ  Option Shuffling: No
Correct: 1.0  Wrong: 0.33

The five intertwined rings or circles on the Olympic flag made of which colours (from left to right)

1. Blue, yellow, black green and red
2. Yellow, red, green, black and blue
3. Red, green, black, yellow and blue
4. Yellow, green, black, blue and red

Options:
1. ✅ a
2. ✗ b
3. ✗ c
4. ✗ d

Question Number: 132  Question Id: 1932  Question Type: MCQ  Option Shuffling: No
Correct: 1.0  Wrong: 0.33

The maximum amount of energy (ATP) is liberated on oxidation of

1. Fats
2. Protein
3. Starch
4. Vitamin

Options:
1. ✅ a
2. ✗ b
3. ✗ c
4. ✗ d

Question Number: 133  Question Id: 1933  Question Type: MCQ  Option Shuffling: No
Correct: 1.0  Wrong: 0.33

The scientist who studied about wheat rust problem

1. H.C. Bose
2. K.C. Mehta
3. Birbal Shani
4. D.D. Pant

Options:
1. ✗ a
2. ✅ b
3. ✗ c
4. ** d

Question Number : 134  Question Id : 1934  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
Ornithology is the study of
a. Mammal
b. Birds
c. Fishes
d. Bat

Options :
1. ✔ a
2. ☒ b
3. ☒ c
4. ☒ d

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

Question Number : 135  Question Id : 1935  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
Which one of the following was used as a chemical weapon in the First World War
a. Carbon mono-oxide
b. Hydrogen cyanide
c. Mustard gas
d. Water gas

Options :
1. ☒ a
2. ☒ b
3. ✔ c
4. ☒ d

Question Number : 136  Question Id : 1936  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
Which of the following is used in making ointment for curing skin disease?
 a. $\text{ZnCO}_3$
b. $\text{ZnSO}_4$
c. $\text{ZnO}$
d. $\text{ZnS}$

Options :
1. ✔ a
2. ☒ b
3. ☒ c
4. ☒ d

Question Number : 137  Question Id : 1937  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
The characteristic odour of garlic is due to

a. A chloro compound
b. A sulphur compound
c. A fluorine compound
d. Acetic acid

Options:
1. ✗ a
2. ✔ b
3. ✗ c
4. ✗ d

Question Number : 138  Question Id : 1938  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
Who was presented the Man Booker international Prize for 2015 in London on May 20, 2015?

a. George Szirtes
b. Lesley Nneka Arimah
c. Laszlo Krasznahorkai
d. Kevin Jared Hosein

Options:
1. ✗ a
2. ✗ b
3. ✔ c
4. ✗ d

Question Number : 139  Question Id : 1939  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33
Maharashtra’s first Indian Institute of Information Technology (IIIT) will be setup in which city?

a. Nagpur
b. Aurangabad
c. Navi Mumbai
d. Pune

Options:
1. ✔ a
2. ✗ b
3. ✗ c
4. ✗ d

For the above question, User had specified 'ignore' during keys upload.
French director Jacques Audiard won the Palme d’or, the top honour of the 68th Cannes film festival on May 24, 2015 for which film?

a. Son of soul  
b. Dheepan  
c. The Lobster  
d. The Measure of a Man

Options:
1. ✗ a  
2. ✔ b  
3. ✗ c  
4. ✗ d

Question Number : 141  Question Id : 1941  Question Type : MCQ  Option Shuffling : No  
Correct : 1.0  Wrong : 0.33

Pointing to a lady, Shabnam said, “She is the daughter of the mother of my brother’s father.” Who is the lady to Shabnam?

a. Granddaughter  
b. Daughter  
c. Sister  
d. Aunt

Options:
1. ✗ a  
2. ✔ b  
3. ✗ c  
4. ✔ d

Question Number : 142  Question Id : 1942  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.

27 : 9 : 125 : ?

a. 5  
b. 12  
c. 25  
d. 45

Options:
1. ✗ a  
2. ✔ b  
3. ✔ c  
4. ✗ d
Question Number : 143  Question Id : 1943  Question Type : MCQ  Option Shuffling : No  
Correct : 1.0  Wrong : 0.33

Touch is related to feel in the same way as Hear is related to:

a. Listen  
b. Noise  
c. Loudness  
d. Vibrate

Options :
1. ✔️ a  
2. ✗ b  
3. ✗ c  
4. ✗ d

Question Number : 144  Question Id : 1944  Question Type : MCQ  Option Shuffling : No  
Correct : 1.0  Wrong : 0.33

Among five friends, A, B, C, D and E, B is elder to C while D and A are elder to E. If in terms of age, A is between C and E, which of the following is necessarily true?

a. B is younger to D  
b. D is elder to C  
c. C and D are of the same age  
d. C is elder to E

Options :
1. ✗ a  
2. ✔ b  
3. ✗ c  
4. ✔ d

Question Number : 145  Question Id : 1945  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.


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

Options :
1. ✗ a  
2. ✔ b  
3. ✗ c
Question Number : 146  Question Id : 1946  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.

344, 217, 126, 66, 28, 9

a. 217  
b. 126  
c. 66  
d. 28

Options :
1. * a
2. * b
3. ✓ c
4. * d

Question Number : 147  Question Id : 1947  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33

If BET = 27 and HEAD = 18, then LOAD will be equal to:

a. 32  
b. 42  
c. 22  
d. 20

Options :
1. ✓ a
2. * b
3. * c
4. * d

Question Number : 148  Question Id : 1948  Question Type : MCQ  Option Shuffling : No
Correct : 1.0  Wrong : 0.33

If 'THUMPING' is coded as 'MUHTGNIP', then 'PERCEIVE' would be coded as:

a. EVIECREP  
b. CREPEVIE  
c. EPCRREEEV  
d. CREPEIEV

Options :
1. * a
2. ✓ b
3. * c
4. * d
Sonali's school bus picks her from her house, takes one right turn and then two successive left turns to reach her school. If the bus is facing South when it reaches the school, which direction was the bus facing when it left Sonali's house?

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

Options:
1. ✗ a  
2. ✗ b  
3. ✗ c  
4. ✓ d

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

 ![Diagram with numbers](image)

a. 65  
b. 70  
c. 80  
d. 110

Options:
1. ✗ a  
2. ✗ b  
3. ✓ c  
4. ✗ d