

# 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 28th Aug Shift 3 Actual  
**Subject Name:** Junior Engineer  
**Creation Date:** 2015-08-18 12:42:57.0  
**Cut Off:** 0  
**Duration:** 120  
**Number of Questions:** 150  
**Total Marks:** 150.0

## Junior Engineer

Group Number : 1  
Group Id : 9  
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 : 9  
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: 9  
Question Shuffling Allowed : Yes

**Question Number : 1 Question Id : 1651 Question Type : MCQ Option Shuffling : No**  
**Correct : 1.0 Wrong : 0.33**

The cyclic integral of  $(\delta Q - \delta W)$  for a process is

1. Positive
2. Negative
3. Zero
4. Unpredictable

Options :

1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 2 Question Id : 1652 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Triple point temperature of water is

1. 273 K
2. 273.14 K
3. 273.15 K
4. 273.16 K

Options :

1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Number : 3 Question Id : 1653 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following law of thermodynamics is responsible for heat transfer

1. Zeroth law of thermodynamics
2. First law of thermodynamics
3. Second law of thermodynamics
4. Third law of thermodynamics

Options :

1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Correct : 1.0 Wrong : 0.33

Which one of the following modes of heat transfer would takes place predominantly from boiler furnace to water wall

1. Convection
2. Conduction
3. Radiation
4. Conduction and Convection

Options :

1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 5 Question Id : 1655 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Compression ratio in case of SI engine is in the range of

1. 6-10
2. 10-15
3. 16-25
4. 25-40

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 6 Question Id : 1656 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Mean effective pressure of otto cycle is

1. Inversely proportional to pressure ratio
2. Directly proportional to pressure ratio
3. Does not depend on pressure ratio
4. Proportional to square root of pressure ratio

Options :

1. ✗ 1
2. ✓ 2
3. ✗ 3

4. ✘ 4

Question Number : 7 Question Id : 1657 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The choke is applied when the engine is

1. Accelerating
2. Hot
3. Cold
4. Idling

Options :

1. ✘ 1
2. ✘ 2
3. ✓ 3
4. ✘ 4

Question Number : 8 Question Id : 1658 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In which of the following milling operation cutter is rotated in same direction of travel of work piece

1. Up milling
2. Down milling
3. Face milling
4. End milling

Options :

1. ✘ 1
2. ✓ 2
3. ✘ 3
4. ✘ 4

Question Number : 9 Question Id : 1659 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Dry and compressed air is used as cutting fluid for machining

1. Steel
2. Aluminium
3. Cast iron
4. Brass

Options :

1. ✘ 1 athiyamanteam.com Online Coaching For Railway Exams Call : 8681859181

- 2. ✗ 2
- 3. ✓ 3
- 4. ✗ 4

Question Number : 10 Question Id : 1660 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Spine-holes are machined by

- 1. Milling
- 2. Boring
- 3. Drilling
- 4. Broaching

Options :

- 1. ✗ 1
- 2. ✗ 2
- 3. ✗ 3
- 4. ✓ 4

Question Number : 11 Question Id : 1661 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In the forging operation, fullering is done to

- 1. Draw out the material
- 2. Bend the material
- 3. Upset the material
- 4. Extrude the material

Options :

- 1. ✓ 1
- 2. ✗ 2
- 3. ✗ 3
- 4. ✗ 4

Question Number : 12 Question Id : 1662 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which one of the following is not a fusion welding process

- 1. Gas welding
- 2. Arc welding
- 3. Brazing
- 4. Resistance welding

1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 13 Question Id : 1663 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The centrifugal casting method is used for casting articles of

1. Symmetrical shape about vertical axis
2. Symmetrical shape about horizontal axis
3. Irregular shape
4. Non-ferrous metal only

Options :

1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 14 Question Id : 1664 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The purpose of jigs and fixture is to

1. Increase machining accuracy
2. facilitate interchangeability
3. Decrease expenditure on quality control
4. Decrease Machining accuracy

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 15 Question Id : 1665 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Directional relays are based on the flow of

1. power
2. voltage wave
3. current
4. field

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 16 Question Id : 1666 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In fuel cell,..... Energy is converted into electrical energy.

1. mechanical
2. heat
3. sound
4. chemical

Options :

1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Number : 17 Question Id : 1667 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Francis turbine is usually used for

1. medium heads
2. lower heads
3. higher heads
4. lower,medium and higher heads

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 18 Question Id : 1668 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The angle between rotating stator flux and rotor poles is called

1. torque angle
2. obtuse angle
3. synchronising angle
4. power factor angle

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 19 Question Id : 1669 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following motors is used in tape recorders

1. Hysteresis motor
2. Reluctance motor
3. Capacitor run motor
4. Universal motor

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 20 Question Id : 1670 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Slip rings for induction motors are made up of

1. cobalt steel
2. aluminium
3. carbon
4. phosphor bronze

Options :

1. ✗ 1
2. ✗ 2
3. ✗ 3

4. ✓ 4

Question Number : 21 Question Id : 1671 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A transformer is working at its maximum efficiency. Its iron loss is 1 kW. Its copper loss will be

1. 0.2 kW
2. 0.25 kW
3. 0.5 kW
4. 1 kW

Options :

1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Number : 22 Question Id : 1672 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

For arc heating, electrodes are made up of

1. Copper
2. Aluminium
3. Graphite
4. Tungsten

Options :

1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 23 Question Id : 1673 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Sodium lamps are used in

1. Reading rooms
2. Street Lights
3. Auditoriums
4. Libraries

Options :

1. ✗ 1

2. ✗ 2 athiyamanteam.com Online Coaching For Railway Exams Call : 8681859181

3. ✗ 3

4. ✓ 4

Question Number : 24 Question Id : 1674 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The fuse wire is made up of

1. Nichrome
2. Lead-tin alloy
3. Copper
4. Tungsten

Options :

1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 25 Question Id : 1675 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

There are ..... Number of modulation techniques.

1. 1
2. 2
3. 3
4. 4

Options :

1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 26 Question Id : 1676 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In frequency modulation

1. amplitude of carrier wave remains the same.
2. frequency of carrier wave remains constant.
3. both frequency and amplitude of carrier waves vary.
4. signal gets distorted.

Options :

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- 1. ✓ 1
- 2. ✗ 2
- 3. ✗ 3
- 4. ✗ 4

Question Number : 27 Question Id : 1677 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In mercury arc rectifier, mercury is used as

- 1. cathode
- 2. conducting medium
- 3. ionizing medium
- 4. electron accelerator

Options :

- 1. ✓ 1
- 2. ✗ 2
- 3. ✗ 3
- 4. ✗ 4

Question Number : 28 Question Id : 1678 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

For single phase rotary converters, when the power factor is unity, the ac to dc current ratio will be

- 1. 1.0
- 2. 0.707
- 3. 1.4
- 4. 0.5

Options :

- 1. ✗ 1
- 2. ✗ 2
- 3. ✓ 3
- 4. ✗ 4

Question Number : 29 Question Id : 1679 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

When a material becomes a superconductor, its resistivity becomes

1. very small
2. zero
3. about 10% of normal value
4. about 20% of normal value

Options :

1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 30 Question Id : 1680 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The inputs of logic gate are 0. The output is 1. The gate is

1. NAND or XOR
2. OR or XOR
3. AND or XOR
4. NOR or Ex-NOR

Options :

1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Number : 31 Question Id : 1681 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Octal number 12 is equal to decimal number

1. 9
2. 10
3. 11
4. 12

Options :

1. ✗ 1
2. ✓ 2
3. ✗ 3

4. ✘ 4

Question Number : 32 Question Id : 1682 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The output of a NOR gate is HIGH if .....

1. all inputs are high
2. any input is high
3. any input is low
4. all inputs are low

Options :

1. ✘ 1
2. ✘ 2
3. ✘ 3
4. ✓ 4

Question Number : 33 Question Id : 1683 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A circuit that uses an amplifier with passive filter elements is called a(n)

1. relaxation oscillator
2. signal generator
3. active filter
4. differential amplifier

Options :

1. ✘ 1
2. ✘ 2
3. ✓ 3
4. ✘ 4

Question Number : 34 Question Id : 1684 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Ionization within a P-N junction causes a layer on each side of the barrier called the

1. junction
2. depletion region
3. barrier voltage
4. forward voltage

- 1. ✗ 1
- 2. ✓ 2
- 3. ✗ 3
- 4. ✗ 4

Question Number : 35 Question Id : 1685 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Cup-and-cone type fracture occurs in the case of

- 1. Cast iron
- 2. Round specimen of ductile metals
- 3. Tough steel
- 4. Soft brass

Options :

- 1. ✗ 1
- 2. ✓ 2
- 3. ✗ 3
- 4. ✗ 4

Question Number : 36 Question Id : 1686 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Liquid limit of a soil indicates its

- 1. Compressibility
- 2. Permeability
- 3. Optimum moisture
- 4. Shear strength

Options :

- 1. ✓ 1
- 2. ✗ 2
- 3. ✗ 3
- 4. ✗ 4

Question Number : 37 Question Id : 1687 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Deep beams are designed for

1. Shear force only
2. Bending moment only
3. Both shear force and bending moment
4. Bearing

Options :

1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 38 Question Id : 1688 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which one of the following stresses is independent of yield stress as a permissible stress for steel member?

1. Axial tensile stress
2. Maximum shear stress
3. Bearing stress
4. Stress in slab base

Options :

1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Number : 39 Question Id : 1689 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The capillary depression in mercury is on account of

1. Adhesion being larger than the viscosity
2. Surface tension being larger than the viscosity
3. Cohesion being greater than the adhesion
4. Vapour pressure being small

Options :

1. ✗ 1
2. ✗ 2
3. ✓ 3

4. ✗ 4

Question Number : 40 Question Id : 1690 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Ranging is the process of

1. Fixing ranging rods on the extremities of the area
2. Aligning the chain in a straight line between two extremities
3. Taking offsets from a chain line
4. Chaining over a range of mountains

Options :

1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 41 Question Id : 1691 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Economic saving of time results by crashing

1. Cheapest critical activity
2. Cheapest non critical activity
3. Costliest critical activity
4. Costliest non critical activity

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 42 Question Id : 1692 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which one of the following does not react with concrete?

1. Sewage water
2. Sulphuric acid
3. Vegetable oil
4. Alcohol

1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Number : 43 Question Id : 1693 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The porosity of a soil sample having its void ratio equal to unity would be

1. 33.34%
2. 50.0%
3. 66.66%
4. 75.0%

Options :

1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 44 Question Id : 1694 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

What is the angle between two plane mirrors of an optical square?

1. 30
2. 60
3. 45
4. 90

Options :

1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 45 Question Id : 1695 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Theodolite is an instrument used for

1. Tightening the capstan-headed nuts of level tube
2. Measurement of horizontal angles only
3. Measurement of vertical angles only
4. Measurement of both horizontal and vertical angles

Options :

1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Number : 46 Question Id : 1696 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

An aeroplane works on

1. Archimedes principle
2. Pascal's law
3. Bernoulli's principle
4. Stoke's law

Options :

1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 47 Question Id : 1697 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In 3 phase power measurement by two wattmeter method, the reading of one wattmeter is zero. The power factor of load is

- a. 1
- b. 0.5
- c. 0
- d. 0.8

Options :

1. ✗ a.
2. ✓ b.
3. ✗ c.

4. ✗ d.

Question Number : 48 Question Id : 1698 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In a CRO which of the following is not a part of electron gun

- a. cathode
- b. grid
- c. accelerating anode
- d. X - Y plates

Options :

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

Question Number : 49 Question Id : 1699 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In a strain measuring device using a strain gauge, the output quantity is

- a. voltage
- b. resistance
- c. impedance
- d. Current

Options :

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

Question Number : 50 Question Id : 1700 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Potentiometer method of dc voltage measurement is more accurate than direct measurement using a voltmeter because

- a. it loads the circuit to maximum extent
- b. it loads the circuit moderately
- c. it does not load the circuit at all
- d. it uses centre zero galvanometer instead of Voltmeters

Options :

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

Question Number : 51 Question Id : 1701 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

**Assertion (A):** A hot wire ammeter has a cramped scale.

**Reason (R):** The heat is proportional to square of current.

- 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 : 1702 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The standard one colour unit is equivalent to

- (a) 1 mg/l cobalt chloride
- (b) 1 mg/l platinum cobalt
- (c) 1 mg/l platinum chloride
- (d) 1 mg/l cobalt sulphate

**Options :**

- 1. ✗ (a)
- 2. ✓ (b)
- 3. ✗ (c)
- 4. ✗ (d)

Question Number : 53 Question Id : 1703 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The fluoride concentration less than prescribed permissible limit may cause

- (a) dental cavities
- (b) spotting in teeth
- (c) discoloration of teeth
- (d) fluorosis

**Options :**

- 1. ✓ (a)
- 2. ✗ (b)
- 3. ✗ (c)
- 4. ✗ (d)

Correct : 1.0 Wrong : 0.33

The ultrafine particles present in surface water are removed through

- (a) coagulation and flocculation
- (b) filtration
- (c) sedimentation
- (d) reverse osmosis

Options :

- 1. ✗ (a)
- 2. ✓ (b)
- 3. ✗ (c)
- 4. ✗ (d)

Question Number : 55 Question Id : 1705 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The pollutant lead present in the atmosphere may cause

- (a) respiratory disease
- (b) asthmatic disease
- (c) cardiovascular disease
- (d) pulmonary edema

Options :

- 1. ✗ (a)
- 2. ✗ (b)
- 3. ✓ (c)
- 4. ✗ (d)

Question Number : 56 Question Id : 1706 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A continuous exposure of intense noise for longer duration may cause irreversible damage to the nerves and the inner ear resulting loss of sensitivity at higher frequencies which is called

- (a) acoustic trauma
- (b) annoyance
- (c) temporary threshold shift
- (d) permanent threshold shift

Options :

- 1. ✗ (a) [athiyamanteam.com](http://athiyamanteam.com) Online Coaching For Railway Exams Call : 8681859181

2. ✗ (b)  
3. ✗ (c)  
4. ✓ (d)

Question Number : 57 Question Id : 1707 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The presence of CO<sub>2</sub> may reduce the pH of rain water up to

(a) 5.6  
(b) 4.0  
(c) 6.5  
(d) 6.0

Options :

1. ✓ (a)  
2. ✗ (b)  
3. ✗ (c)  
4. ✗ (d)

Question Number : 58 Question Id : 1708 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Plotter is a(an) \_\_\_\_\_

(A) Input device (B) Output device  
(C) Storage device (D) Both input and output device

Options :

1. ✗ (A)  
2. ✓ (B)  
3. ✗ (C)  
4. ✗ (D)

Question Number : 59 Question Id : 1709 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

DVD stands for \_\_\_\_\_

(A) Digital Video Disk (B) Digital Variable Disk  
(C) Digital Versatile Disk (D) Digital Versatile Data

Options :

1. ✗ (A)  
2. ✗ (B)  
3. ✓ (C)  
4. ✗ (D)

Correct : 1.0 Wrong : 0.33

Which of the following can be treated as both input as well as output device?

<b>(A)</b> Mouse	<b>(B)</b> Printer
<b>(C)</b> Memory	<b>(D)</b> Plotter

Options :

1. ✗ (A)
2. ✗ (B)
3. ✓ (C)
4. ✗ (D)

Question Number : 61 Question Id : 1711 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

UTF-32 is a(an) \_\_\_\_\_

<b>(A)</b> 16-bit fixed-width encoding	<b>(B)</b> 16-bit variable-width encoding
<b>(C)</b> 32-bit variable-width encoding	<b>(D)</b> 32-bit fixed-width encoding

Options :

1. ✗ (A)
2. ✗ (B)
3. ✗ (C)
4. ✓ (D)

Question Number : 62 Question Id : 1712 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The octal representation of  $(AOE)_{16}$  is \_\_\_\_\_

<b>(A)</b> $(5016)_8$	<b>(B)</b> $(5061)_8$
<b>(C)</b> $(1650)_8$	<b>(D)</b> $(5610)_8$

Options :

1. ✓ (A)
2. ✗ (B)
3. ✗ (C)
4. ✗ (D)

Question Number : 63 Question Id : 1713 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

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

<b>(A)</b> X	<b>(B)</b> 1
<b>(C)</b> 0	<b>(D)</b> Y

Options :

1. ✓ (A) [athiyamanteam.com](http://athiyamanteam.com) Online Coaching For Railway Exams Call : 8681859181

- 2. ✗ (B)
- 3. ✗ (C)
- 4. ✗ (D)

Question Number : 64 Question Id : 1714 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The 2's compliment of the binary number  $(00001111)_2$  is

(A) $(00001111)_2$	(B) $(11110000)_2$
(C) $(10101010)_2$	(D) $(11110001)_2$

Options :

- 1. ✗ (A)
- 2. ✗ (B)
- 3. ✗ (C)
- 4. ✓ (D)

Question Number : 65 Question Id : 1715 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following categories of viruses normally infect executable code, such as .com and .exe files?

(A) File infector viruses	(B) Boot sector viruses
(C) Master boot record viruses	(D) Macro viruses

Options :

- 1. ✓ (A)
- 2. ✗ (B)
- 3. ✗ (C)
- 4. ✗ (D)

Question Number : 66 Question Id : 1716 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In class 'C' IP addresses, number of network ID bits used to identify the class is \_\_\_\_\_

(A) 0	(B) 1
(C) 2	(D) 3

Options :

- 1. ✗ (A)
- 2. ✗ (B)
- 3. ✗ (C)
- 4. ✓ (D)

Question Number : 67 Question Id : 1717 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following is a general-purpose network?

(A) Storage Area Network (SAN) (B) Local Area Network (LAN)  
(C) Enterprise Private Network (EPN) (D) Virtual Private Network (VPN)

Options :

1. ✗ (A)
2. ✓ (B)
3. ✗ (C)
4. ✗ (D)

Question Number : 68 Question Id : 1718 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The term “plan” in orthographic projection refers to:

(a) top view, (b) front view, (c) side view, (d) sectioned view.

Options :

1. ✓ (a)
2. ✗ (b)
3. ✗ (c)
4. ✗ (d)

Question Number : 69 Question Id : 1719 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A thread profile having included  $55^\circ$  angle is:

(a) V thread, (b) Acme thread, (c) Square thread, (d) Whitworth thread.

Options :

1. ✗ (a)
2. ✗ (b)
3. ✗ (c)
4. ✓ (d)

Question Number : 70 Question Id : 1720 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The common map of “road network” is drawn to scale with RF:

(a) Less than one, (b) Greater than one,  
(c) Equal to one, (d) RF is not relevant for such maps.

Options :

1. ✓ (a)
2. ✗ (b)
3. ✗ (c)
4. ✗ (d)

Correct : 1.0 Wrong : 0.33

The eccentricity of a hyperbola is equal to:

- (a) less than One, (b) greater than One,
- (c) One, (d) There is no term as eccentricity for a parabola.

Options :

- 1. ✗ (a)
- 2. ✓ (b)
- 3. ✗ (c)
- 4. ✗ (d)

Question Number : 72 Question Id : 1722 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The angle between the vertical iso-axis and rest of the two iso-axis are:

- (a)  $15^\circ$  each, (b)  $90^\circ$  each, (c)  $30^\circ$  each, (d)  $60^\circ$  each.

Options :

- 1. ✗ (a)
- 2. ✗ (b)
- 3. ✓ (c)
- 4. ✗ (d)

Question Number : 73 Question Id : 1723 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. When the velocity -time graph of the object is plotted ( with velocity on y-axis and time on x-axis), we get a straight line passing through origin and inclined to x-axis. If the force (on y-axis) versus time (on x-axis ) graph is plotted, the graph is a straight line

- (a) passing through origin and inclined to x-axis
- (b) passing through origin and coinciding with x-axis
- (c) parallel to x-axis
- (d) parallel to y-axis.

Options :

- 1. ✗ (a)
- 2. ✗ (b)
- 3. ✓ (c)
- 4. ✗ (d)

Correct : 1.0 Wrong : 0.33

The acceleration due to gravity,  $g$ , is

- (a) independent of the mass of the earth
- (b) inversely proportional to the radius of the earth
- (c) proportional to the mass of the earth and inversely proportional to the square of the radius of the earth
- (d) same at the poles and the equator .

Options :

- 1. ✗ (a)
- 2. ✗ (b)
- 3. ✓ (c)
- 4. ✗ (d)

Question Number : 75 Question Id : 1725 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Rohan (mass 40 kg) and Sohan (mass 60 kg) climb the stairs of their school building to reach the first floor in 40 s and 60 s, respectively. Let  $P_1$  and  $P_2$  be the power delivered in this task by Rohan and Sohan, respectively . Which one of the following is correct?

- (a)  $P_1 = P_2$
- (b)  $P_1 > P_2$
- (c)  $P_1 < P_2$
- (d)  $P_1 = 2 P_2$  .

Options :

- 1. ✓ (a)
- 2. ✗ (b)
- 3. ✗ (c)
- 4. ✗ (d)

Question Number : 76 Question Id : 1726 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The loudness or softness of a sound is determined basically by its

- (a) amplitude
- (b) frequency
- (c) speed
- (d) speed and frequency both .

Options :

- 1. ✓ (a)
- 2. ✗ (b) **athiyamanteam.com Online Coaching For Railway Exams Call : 8681859181**

3. ✘ (c)  
4. ✘ (d)

Question Number : 77 Question Id : 1727 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A ray of light travelling in air is incident on a glass slab. Part of it is reflected and part is refracted. Let  $i$ ,  $r$  and  $s$  be the angle of incidence, angle of reflection and angle of refraction. Which one of the following is correct?

(a)  $i = r = s$   
 (b)  $i \neq r \neq s$   
 (c)  $i = r$  and  $s < i$   
 (d)  $i = r$  and  $s > i$

## Options :

1. ✘ (a)
2. ✘ (b)
3. ✓ (c)
4. ✘ (d)

Question Number : 78 Question Id : 1728 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A conducting wire has length  $l$  and area of cross-section  $A$ . The resistivity of its material is  $\rho$  and its resistance is  $R$ . It is connected in series with another wire of the same dimensions but of a resistivity  $2\rho$ . The net resistance of the combination is

(a) R  
 (b) 2 R  
 (c) 3 R  
 (d)  $2R/3$ .

## Options :

1. ✘ (a)
2. ✘ (b)
3. ✓ (c)
4. ✘ (d)

Question Number : 79 Question Id : 1729 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which one of the following changes will decrease the vapour pressure of water contained in a sealed tube?

- a) Increasing the quantity of water
- b) decreasing the quantity of water
- c) Decreasing the temperature of water
- d) Decreasing the volume of the vessel

## Options :

1. \* a) athiyamanteam.com Online Coaching For Railway Exams Call : 8681859181

- 2. ✗ b)
- 3. ✓ c)
- 4. ✗ d)

Question Number : 80 Question Id : 1730 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following reaction represents the process of calcination?

- a)  $\text{Cu}_2\text{S} + \text{O}_2 \rightarrow \text{Cu}_2\text{O} + \text{SO}_2$
- b)  $\text{ZnCO}_3(s) \rightarrow \text{ZnO}(s) + \text{CO}_2$
- c)  $\text{ZnO}(s) + \text{C}(s) \rightarrow \text{Zn}(s) + \text{CO}(g)$
- d)  $2\text{ZnS} + 3\text{O}_2 \rightarrow 2\text{ZnO} + 2\text{SO}_2(g)$

Options :

- 1. ✗ a)
- 2. ✓ b)
- 3. ✗ c)
- 4. ✗ d)

Question Number : 81 Question Id : 1731 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following has only covalent bonds between the atoms?

- a) KCl
- b) HCHO
- c) Na<sub>2</sub>O
- d) MgO

Options :

- 1. ✗ a)
- 2. ✓ b)
- 3. ✗ c)
- 4. ✗ d)

Question Number : 82 Question Id : 1732 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

An acid reacts with a base to form salt and water. What type of reaction is this?

- A) Combination
- b) Decomposition
- c) Displacement
- d) Double displacement

Options :

- 1. ✗ a)
- 2. ✗ b)
- 3. ✗ c)
- 4. ✓ d)

Question Number : 83 Question Id : 1733 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

An acid produces a gas 'X' on reaction with metal carbonates and hydrogen carbonates separately. What is 'X' in these reactions?

- a) Carbon dioxide
- b) Carbon monoxide
- c) Sulphur dioxide
- d) Hydrogen

Options :

- 1. ✓ a)
- 2. ✗ b)
- 3. ✗ c)
- 4. ✗ d)

Question Number : 84 Question Id : 1734 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which one of the following statements is correct about Mendeleev's periodic table of elements?

- a) It has 18 groups.
- b) It had some gaps for the new elements to be discovered later.
- c) It has the elements arranged in order of their increasing atomic numbers.
- d) The table initially contained 112 elements.

Options :

- 1. ✗ a)
- 2. ✓ b)
- 3. ✗ c)
- 4. ✗ d)

Question Number : 85 Question Id : 1735 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following functions is not performed by the kidneys?

- a) Removal of Urea from the body
- b) Regulating the water content of the body
- c) Reabsorbing useful substances from the filtrate back into blood
- d) Excreting excess hormones present in the blood

Options :

- 1. ✗ a)
- 2. ✗ b)
- 3. ✗ c)
- 4. ✓ d)

Question Number : 86 Question Id : 1736 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which is the correct evolutionary sequence of vertebrates?

a) Fish, Amphibians ,Birds ,Reptiles, Mammals

b) Amphibians, Fish ,Reptiles, Birds, Mammals

c )Fish, Amphibians , Reptiles ,Birds, Mammals

d ) Mammals, Birds ,Reptiles ,Fish, Amphibians

Options :

1. ✘ a)

2. ✘ b)

3. ✓ c)

4. ✘ d)

Question Number : 87 Question Id : 1737 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The organs of plants that carry out Photosynthesis are

a) all kinds of leaves

b) green leaves only

c) green leaves in any plant and stem in cacti

d) roots and branches

Options :

1. ✘ a)

2. ✘ b)

3. ✓ c)

4. ✘ d)

Question Number : 88 Question Id : 1738 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

What sperm is to egg

a) stamen is to carpel

b) stigma is to ovary

c) pollen is to style

d) pollen grain is to ovule

Options :

1. ✘ a)

2. ✘ b)

3. ✘ c)

4. ✓ d)

Question Number : 89 Question Id : 1739 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The disease Thallasemia wherein a person is unable to make Hemoglobin is a

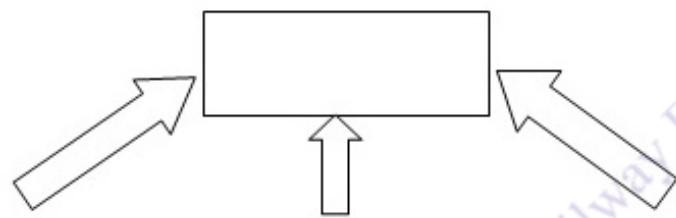
- a) Life style disease
- b) Infectious disease
- c) Genetic disorder
- d) Metabolic disorder

Options :

- 1. ✗ a)
- 2. ✗ b)
- 3. ✓ c)
- 4. ✗ d)

Question Number : 90 Question Id : 1740 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33



Combustion

Respiration by  
Living beings

Decomposition of  
Plant & Animal remains

In the above diagram name of which gas would you write in the box.

- a) Oxygen
- b) Carbon-di-oxide
- c) Nitrogen
- d) Ammonia

Options :

- 1. ✗ a)
- 2. ✓ b)
- 3. ✗ c)
- 4. ✗ d)

Question Number : 91 Question Id : 1741 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The HCF and LCM of first two prime numbers is

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

Options :

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

Question Number : 92 Question Id : 1742 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The least number which when divided by 10 and 16 leaving remainder 6 in each case is

- a. 36
- b. 86
- c. 156
- d. 164

Options :

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

Question Number : 93 Question Id : 1743 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If  $a:b = 3:7$  and  $a+b = 80$ , then  $a$  is equal to

- a. 24
- b. 56
- c. 30
- d. 60

Options :

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

Question Number : 94 Question Id : 1744 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If  $8, 3x, 6, 27$  are in proportion, then  $x$  is equal to

- a. 6
- b. 9
- c. 12
- d. 15

Options :

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

Question Number : 95 Question Id : 1745 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If 8 % of a number is 24, then number is

- a. 200
- b. 300
- c. 350
- d. 400

Options :

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

Question Number : 96 Question Id : 1746 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The simple interest on ₹ 720 for 5 years, at 6% per annum is

- a. ₹ 216
- b. ₹ 232
- c. ₹ 250
- d. ₹ 300

Options :

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

Question Number : 97 Question Id : 1747 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The Compound interest on ₹ 8000 for  $\frac{3}{2}$  years at 20% per annum compounded half yearly is

- ₹10648
- ₹3648
- ₹2648
- ₹2400

**Options :**

- \* a.
- \* b.
- ✓ c.
- \* d.

**Question Number : 98 Question Id : 1748 Question Type : MCQ Option Shuffling : No**

**Correct : 1.0 Wrong : 0.33**

The cost price of an article is ₹ 550. If it is sold at profit of 10% , then selling price of article is

- ₹495
- ₹610
- ₹625
- ₹605

**Options :**

- \* a.
- \* b.
- \* c.
- ✓ d.

**Question Number : 99 Question Id : 1749 Question Type : MCQ Option Shuffling : No**

**Correct : 1.0 Wrong : 0.33**

The selling price of an article is ₹ 608. If it was sold at a loss of 5% ,the cost price of the article was

- ₹620
- ₹640
- ₹650
- ₹680

**Options :**

- \* a.
- ✓ b.
- \* c.
- \* d.

**Question Number : 100 Question Id : 1750 Question Type : MCQ Option Shuffling : No**

**Correct : 1.0 Wrong : 0.33**

A shopkeeper mixes 20 kg of wheat which cost him ₹ 16/kg with 10 kg of wheat which cost him ₹ 12/kg. He sells the mixture at ₹ 17/kg. His gain is

- a. ₹50
- b. ₹60
- c. ₹70
- d. ₹80

Options :

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

Question Number : 101 Question Id : 1751 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In two vessels A and B, the milk and water are in the ratio 5:4 and 3:5 respectively.

The ratio in which these are mixed to obtain new mixture which contains half milk and half water is

- a. 9:4
- b. 4:9
- c. 4:3
- d. 3:4

Options :

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

Question Number : 102 Question Id : 1752 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The speed of a car is 54 km/h. The time taken by it in seconds, to cover a distance of 240 m is

- a. 12
- b. 15
- c. 16
- d. 18

Options :

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

Question Number : 103 Question Id : 1753 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A train is moving at a speed of 72 km/h. In 40 seconds it will cover a distance of

- a. 900 m
- b. 800 m
- c. 600 m
- d. 550 m

Options :

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

Question Number : 104 Question Id : 1754 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

B can do a piece of work in 30 days. If A and B together can do same work in 12 days, then, the number of days required for A alone to do the same work is

- a. 20
- b. 25
- c. 30
- d. 32

Options :

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

Question Number : 105 Question Id : 1755 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

P and Q can do a piece work in 20 days, Q and R in 15 days and R and P in 12 days.

The number of days required for P to do same work is

- a. 20
- b. 30
- c. 40
- d. 60

Options :

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

Question Number : 106 Question Id : 1756 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The average of first seven whole numbers is

- a. 8
- b. 7
- c. 6
- d. 5

Options :

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

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

Question Number : 107 Question Id : 1757 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The average 16 observations is 25 and average of 24 observations is 30. The average of all 40 observation is

- a. 26
- b. 27
- c. 27.5
- d. 28

Options :

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

Question Number : 108 Question Id : 1758 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The sum of first 21 terms of the AP -20,-18,-16,..., is

- a. 0
- b. -4
- c. -8
- d. 4

Options :

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

Question Number : 109 Question Id : 1759 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The sum of infinite GP is 6. If common ratio is  $\frac{1}{3}$ , the first term is

- a. 6
- b. 4
- c. 3
- d. 2

Options :

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

Question Number : 110 Question Id : 1760 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

From the top of a tower, the angle of depression of a car on the ground is  $60^\circ$ . If height of the tower is 40m, the distance of the car from the base of tower is

- a.  $20\sqrt{3}$  m
- b.  $30\sqrt{3}$  m
- c.  $40\sqrt{3}$  m
- d.  $\frac{40\sqrt{3}}{3}$  m

Options :

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

Question Number : 111 Question Id : 1761 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The angle of elevation of top of a tower, 30m high, from two points on same side of the tower are respectively  $30^\circ$  and  $45^\circ$ . If the point and tower are in same line, the distance between two points is

- a.  $15(3+\sqrt{3})$  m
- b.  $15(3-\sqrt{3})$  m
- c.  $30(\sqrt{3} + 1)$  m
- d.  $30(\sqrt{3} - 1)$  m

Options :

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

Question Number : 112 Question Id : 1762 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If  $(x+2)$  is a factor of  $5x^3-3x^2+ax+2$ , then a is equal to

- a. -25
- b. -20
- c. 15
- d. 27

Options :

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

Question Number : 113 Question Id : 1763 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

One of the factor of  $(5x-7y)^3 - (3x-4y)^3$  is

- a.  $(2x-3y)$
- b.  $(2x-11y)$
- c.  $(8x-3y)$
- d.  $(2x+3y)$

Options :

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

Question Number : 114 Question Id : 1764 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The value of k for which  $kx^2+5x+1=0$ , has equal roots is

- a.  $\frac{5}{4}$
- b.  $-\frac{5}{4}$
- c.  $\frac{25}{4}$
- d.  $-\frac{25}{4}$

Options :

- 1. ✗ a.
- 2. ✗ b.
- 3. ✓ c.

4. ✗ d.

Question Number : 115 Question Id : 1765 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The sum of squares of the roots of the equations  $x^2 - 7x + 6 = 0$  is

- a. 37
- b. 35
- c. 29
- d. 27

Options :

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

Question Number : 116 Question Id : 1766 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Consider the following statements and select the difference between Chaitya and Vihara

- 1. Chaitya is a place of worship whereas Vihara is a living place for Buddhist saints
- 2. Vihara is a place of worship whereas Chaitya is a living place for Buddhist saints
- 3. Chaitya and Vihara both can be used as a living place
- 4. There is not much difference between the two

Options :

- 1. ✓ 1
- 2. ✗ 2
- 3. ✗ 3
- 4. ✗ 4

Question Number : 117 Question Id : 1767 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The world famous Takht-i-Taus (the Peacock Throne) was kept in which of the following Mughal buildings?

- 1. The Diwan-i-Khas at Fatehpur Sikri
- 2. Agra Fort
- 3. The Rang Mahal at the Red Fort at Delhi
- 4. The Diwan-i-Aam at the Red Fort at Delhi

Options :

1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Number : 118 Question Id : 1768 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

With reference to the colonial rule in India, consider the following events

1. Morley-Minto Reforms Act
2. Transfer of capital from Calcutta to Delhi
3. First World War
4. Lucknow Pact

The correct chronological order of these events is

1. 2-1-3-4
2. 1-2-3-4
3. 2-1-4-3
4. 1-2-4-3

Options :

1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 119 Question Id : 1769 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The latitudes that pass through Sikkim also pass through

1. Rajasthan
2. Jammu and Kashmir
3. Himachal Pradesh
4. Punjab

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Correct : 1.0 Wrong : 0.33

River Indus originates from

1. Hindukush Range
2. Himalayan Range
3. Karakoram Range
4. Kailash Range

Options :

1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Number : 121 Question Id : 1771 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Currently half of the world's population lives in just six countries. Identify them from the following

1. India,China,Bangladesh,Pakistan,Brazil,Indonesia
2. India,China,Bangladesh,South Africa,Pakistan,Indonesia
3. China,India,United States,Indonesia,Brazil,Pakistan
4. China,India,Bangladesh,United States,Pakistan,Indonesia

Options :

1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 122 Question Id : 1772 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If a ship moves from fresh water into sea water, it will

1. sink completely
2. sink a little bit
3. rise a little higher
4. remain unaffected

Options :

1. ✗ 1
2. ✗ 2
3. ✓ 3

4. ✘ 4

Question Number : 123 Question Id : 1773 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The focal length of a convex lens is

1. same for all the colours
2. shorter for blue light than for red
3. shorter for red light than for blue
4. maximum for yellow light

Options :

1. ✘ 1
2. ✓ 2
3. ✘ 3
4. ✘ 4

Question Number : 124 Question Id : 1774 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following is not correctly matched

1. Decibel-unit of sound
2. Horse power-Unit of power
3. Nautical mile-unit of distance
4. Celcius-unit of heat

Options :

1. ✘ 1
2. ✘ 2
3. ✘ 3
4. ✓ 4

Question Number : 125 Question Id : 1775 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

For distribution of powers between the union and the states, the constitution of india introduce three lists. Which two of the following Articles govern the distribution of power;

1. Articles 3 and 4
2. Articles 56 and 57
3. Articles 141 and 142
4. Articles 245 and 246

Options : [athiyamanteam.com](http://athiyamanteam.com) Online Coaching For Railway Exams Call : 8681859181

1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Number : 126 Question Id : 1776 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following can a court issue for enforcement of Fundamental Rights?

1. A decree
2. An ordinance
3. A Writ
4. A notification

Options :

1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 127 Question Id : 1777 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Twenty Point Programme' (Bees-sutri Karyakrama) was first launched in the Year

1. 1969
2. 1975
3. 1977
4. 1982

Options :

1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 128 Question Id : 1778 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Among other things, which one of the following was the purpose for which the Deepak Parekh Committee was constituted

1. To study the current socio-economic conditions of certain minority communities
2. To suggest measures for financing the development of infrastructure
3. To frame a policy on the production of genetically modified organisms
4. To suggest measures to reduce the fiscal deficit in the Union Budget

**Options :**

1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

**Question Number : 129 Question Id : 1779 Question Type : MCQ Option Shuffling : No**

**Correct : 1.0 Wrong : 0.33**

Who among the following developed the concept of Human Development Index

1. Amartya Sen
2. A.S.Kadir
3. Alva Myrdal
4. Mehboob-ul-Haq

**Options :**

1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

**Question Number : 130 Question Id : 1780 Question Type : MCQ Option Shuffling : No**

**Correct : 1.0 Wrong : 0.33**

Ryder cup is related with which sport

1. Football
2. Golf
3. Badminton
4. Cricket

**Options :**

1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 131 Question Id : 1781 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The Badminton player who won the Malaysian open on April 5 , is

1. Chen Long
2. Lin Dan
3. Carolina Marin
4. Li- xuerui

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

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

Question Number : 132 Question Id : 1782 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Dog bite can cause rabies. Which among the following other animals can also cause rabies

1. Donkey
2. Bat
3. Horse
4. Crocodile

Options :

1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 133 Question Id : 1783 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A 'flower bud' which is used as a spice is obtained from

1. Cinnamon
2. Cardamom
3. Clove
4. Coriander

Options :

1. ✗ 1
2. ✗ 2
3. ✓ 3

4. ✘ 4

Question Number : 134 Question Id : 1784 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The gas used for artificial ripening of fruit is

1. Ether
2. Ammonia
3. Acetylene
4. Ethylene

Options :

1. ✘ 1
2. ✘ 2
3. ✘ 3
4. ✓ 4

Question Number : 135 Question Id : 1785 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

$H_2O$  is liquid  $H_2S$  is a gas because

1. Oxygen forms stronger hydrogen bond than sulphur.
2. Oxygen is less electromagnetic than that of sulphur.
3. Atomic radius of oxygen is less than that of sulphur.
4. Atomic radius of oxygen is greater than that of sulphur.

Options :

1. ✓ 1
2. ✘ 2
3. ✘ 3
4. ✘ 4

Question Number : 136 Question Id : 1786 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In reaction between HCl and O<sub>2</sub> is given by



The equivalent weight of HCl equal to

1. Its molecular weight
2. Half of its molecular weight
3. Twice of its molecular weight
4. Four times of its molecular weight

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 137 Question Id : 1787 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which has the highest electron affinity

1. F
2. Cl
3. Br
4. I

Options :

1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 138 Question Id : 1788 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The country,which has decided to lift ban on rice import from india in may 2015 , is

1. USA
2. China
3. Brazil
4. Iran

Options :

1. ✗ 1 athiyamanteam.com Online Coaching For Railway Exams Call : 8681859181

- 2. ✗ 2
- 3. ✗ 3
- 4. ✓ 4

Question Number : 139 Question Id : 1789 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

LOK SABHA on MAY 7 cleared a bill to lower the age of Juveniles from 18 years to

- 1. 16 years
- 2. 15 years
- 3. 14 years
- 4. 17 years

Options :

- 1. ✓ 1
- 2. ✗ 2
- 3. ✗ 3
- 4. ✗ 4

Question Number : 140 Question Id : 1790 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Who has been nominated by India to be the first president of \$100 billion BRICS bank being set up by the five big emerging economies in may 2015

- 1. M.V. Tanksale
- 2. K.V. Kamath
- 3. O.P. Bhatt
- 4. Shikha Sharma

Options :

- 1. ✗ 1
- 2. ✓ 2
- 3. ✗ 3
- 4. ✗ 4

Question Number : 141 Question Id : 1791 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Pointing to a lady, Sunil said, "She is the wife of my father's wife's brother." How is the lady related to Sunil?

- 1) Aunt
- 2) Grandmother
- 3) Niece
- 4) Cousin

Options :

- 1. ✓ 1)
- 2. ✗ 2)
- 3. ✗ 3)
- 4. ✗ 4)

Question Number : 142 Question Id : 1792 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.

8 : 65 :: 11 : ?

- 1) 91
- 2) 107
- 3) 122
- 4) 145

Options :

- 1. ✗ 1)
- 2. ✗ 2)
- 3. ✓ 3)
- 4. ✗ 4)

Question Number : 143 Question Id : 1793 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

'Dice' is related to 'Cube' in the same way as 'Ball' is related to:

- 1) Circle
- 2) Sphere
- 3) Shape
- 4) Roundness

Options :

- 1. ✗ 1)
- 2. ✓ 2)
- 3. ✗ 3)
- 4. ✗ 4)

Question Number : 144 Question Id : 1794 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Eight friends A, B, C, D, E, F, G and H are sitting in a circle facing the center. C is sitting between H and F. A is not sitting opposite H. E is third to the left of C. B is sitting next to F and opposite D.

Which of the following statement is not correct?

1) G is between A and B      2) H is third to the left of B  
3) C is sitting opposite A      4) G is sitting second to the left of D

**Options :**

1. ✗ 1)  
2. ✗ 2)  
3. ✗ 3)  
4. ✓ 4)

**Question Number : 145 Question Id : 1795 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. Crore    2. Thousand    3. Million    4. Trillion    5. Hundred    6. Billion

1) 4, 6, 3, 1, 2, 5  
2) 5, 2, 3, 1, 4, 6  
3) 5, 2, 3, 1, 6, 4  
4) 5, 2, 1, 3, 6, 4,

**Options :**

1. ✗ 1)  
2. ✗ 2)  
3. ✓ 3)  
4. ✗ 4)

**Question Number : 146 Question Id : 1796 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.

130, 66, 32, 18, 10, 6

1) 32    2) 66    3) 10    4) 18

Options :

- 1. ✓ 1)
- 2. ✗ 2)
- 3. ✗ 3)
- 4. ✗ 4)

Question Number : 147 Question Id : 1797 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If DEAF = 7349 and KITE = 5283, then DIET would be coded as:

- 1) 7283
- 2) 7238
- 3) 3728
- 4) 7823

Options :

- 1. ✗ 1)
- 2. ✓ 2)
- 3. ✗ 3)
- 4. ✗ 4)

Question Number : 148 Question Id : 1798 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If 'THRIVE' is coded as 'DUHQGS', then 'STRONG' would be coded as:

- 1) FMNSQP
- 2) RSQNMF
- 3) HOPSUT
- 4) FMNQSR

Options :

- 1. ✗ 1)
- 2. ✗ 2)
- 3. ✗ 3)
- 4. ✓ 4)

Question Number : 149 Question Id : 1799 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

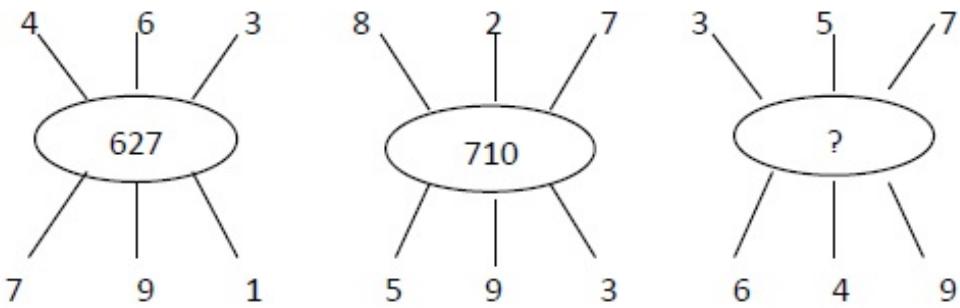
One evening before sunset, Rohan and Rahul were talking to each other face to face. If Rahul's shadow was exactly to his left, which direction was Rohan facing?

- 1) South
- 2) North
- 3) East
- 4) West

Options :

- 1. ✗ 1)
- 2. ✓ 2)
- 3. ✗ 3)
- 4. ✗ 4)

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



1) 296      2) 415      3) 503      4) 527

Options :

1. ✗ 1)  
2. ✗ 2)  
3. ✓ 3)  
4. ✗ 4)