

Railway Recruitment Board

Notations :

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

Question Paper Name: Junior Engineer 29th Aug Shift 2 Actual
Subject Name: Junior Engineer
Creation Date: 2015-08-18 12:40:43.0
Cut Off: 0
Duration: 120
Number of Questions: 150
Total Marks: 150.0

Junior Engineer

Group Number : 1
Group Id : 11
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 : 11
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: 11
Question Shuffling Allowed : Yes

**Question Number : 1 Question Id : 1951 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33**

In which of the following processes, the heat is fully converted into work?

- a. Reversible adiabatic process
- b. Reversible isobaric process
- c. Reversible isometric process
- d. Reversible isothermal process

Options :

- 1. ✘ a
- 2. ✘ b
- 3. ✘ c
- 4. ✔ d

Question Number : 2 Question Id : 1952 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which one of the following represents open thermodynamic system?

- a. Manual ice cream freezer
- b. Centrifugal pump
- c. Pressure cooker
- d. Bomb calorimeter

Options :

- 1. ✘ a
- 2. ✔ b
- 3. ✘ c
- 4. ✘ d

Question Number : 3 Question Id : 1953 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Pistons of diesel engine are usually cooled by

- a. Air
- b. Water
- c. Lubricating oil
- d. Fuel oil

Options :

- 1. ✘ a
- 2. ✘ b
- 3. ✔ c

4. ✘ d

Question Number : 4 Question Id : 1954 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Air injection in IC engine refers to injection of

- a. Air only
- b. Liquid fuel only
- c. Liquid fuel and air
- d. Supercharging air

Options :

1. ✘ a

2. ✘ b

3. ✔ c

4. ✘ d

Question Number : 5 Question Id : 1955 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

By higher octane number of SI fuel, it is meant that the fuel has

- a. Higher heating value
- b. Higher flash point
- c. Lower volatility
- d. Longer ignition delay

Options :

1. ✘ a

2. ✘ b

3. ✘ c

4. ✔ d

Question Number : 6 Question Id : 1956 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In which one of the following materials is the heat propagation minimum due to conduction heat transfer?

- a. Lead
- b. Copper
- c. Water
- d. Air

Options :

- 1. ✘ a
- 2. ✘ b
- 3. ✘ c
- 4. ✔ d

Question Number : 7 Question Id : 1957 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

A satellite floats in deep space with very high velocity. It will continuously lose heat by

- a. Convection
- b. Conduction and convection
- c. Radiation
- d. Radiation and convection

Options :

- 1. ✘ a
- 2. ✘ b
- 3. ✔ c
- 4. ✘ d

Question Number : 8 Question Id : 1958 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which one of the following is the correct statement?

Gate is provided in moulds to

- a. Feed the casting at constant rate
- b. Give passage to gases
- c. Compensate for shrinkage
- d. Avoid cavities

Options :

- 1. ✓ a
- 2. ✗ b
- 3. ✗ c
- 4. ✗ d

Question Number : 9 Question Id : 1959 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The method of casting for producing ornamental pieces are

- a. Slush and gravity casting
- b. Pressed and slush casting
- c. Gravity and semi-permanent mould casting
- d. Semi-permanent mould and pressed casting

Options :

- 1. ✗ a
- 2. ✓ b
- 3. ✗ c
- 4. ✗ d

Question Number : 10 Question Id : 1960 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which one of following lubricants is most suitable for drawing mild steel wires?

- a. Sodium stearate
- b. Water
- c. Lime-water
- d. Kerosene

Options :

1. ✘ a
2. ✘ b
3. ✔ c
4. ✘ d

Question Number : 11 Question Id : 1961 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

What is the major problem in hot extrusion?

- a. Design of punch
- b. Design of die
- c. Wear and tear of die
- d. Wear of punch

Options :

1. ✘ a
2. ✔ b
3. ✘ c
4. ✘ d

Question Number : 12 Question Id : 1962 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Arc blow is more common in

- a. A.C. welding
- b. D.C. welding with straight polarity
- c. D.C. welding with bare electrodes
- d. A.C. welding with bare electrodes

Options :

1. ✘ a
2. ✔ b
3. ✘ c
4. ✘ d

Question Number : 13 Question Id : 1963 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

In MIG welding, the metal is transferred into the form of which one of the following?

- a. A fine spray of metal
- b. Molten drops
- c. Weld pool
- d. Molecules

Options :

- 1. ✘ a
- 2. ✔ b
- 3. ✘ c
- 4. ✘ d

Question Number : 14 Question Id : 1964 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Soft material cannot be economically ground due to

- a. The high temperature involved
- b. Frequent wheel clogging
- c. Rapid wheel wear
- d. Low work piece stiffness

Options :

- 1. ✘ a
- 2. ✔ b
- 3. ✘ c
- 4. ✘ d

Question Number : 15 Question Id : 1965 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Another name for the coal used in power plant is

- a. Charcoal
- b. Coke
- c. Steam coal
- d. Wet coal

Options :

- 1. ✘ a

2. ✘ b

3. ✔ c

4. ✘ d

Question Number : 16 Question Id : 1966 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

In a fluorescent tube circuit, choke is used as a

- a. Starter
- b. Power factor improving device
- c. Source of heat
- d. Current limiting device

Options :

1. ✘ a

2. ✘ b

3. ✘ c

4. ✔ d

Question Number : 17 Question Id : 1967 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

When a dynamo converts electrical energy into mechanical energy, it is called

- a. motor
- b. generator
- c. productor
- d. inverter

Options :

1. ✔ a

2. ✘ b

3. ✘ c

4. ✘ d

Question Number : 18 Question Id : 1968 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The terminal voltage of a DC shunt generator on loading

- a. increases slightly
- b. increases sharply
- c. remains constant
- d. decreases slightly

Options :

- 1. ✘ a
- 2. ✘ b
- 3. ✘ c
- 4. ✔ d

Question Number : 19 Question Id : 1969 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The value of flux involved in the emf equation of transformer is

- a. instantaneous
- b. maximum
- c. average
- d. rms

Options :

- 1. ✘ a
- 2. ✔ b
- 3. ✘ c
- 4. ✘ d

Question Number : 20 Question Id : 1970 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

For maximum efficiency operation of a transformer, iron losses equals

- a. copper losses
- b. hysteresis losses
- c. eddy current losses
- d. humming losses

Options :

- 1. ✔ a
- 2. ✘ b
- 3. ✘ c

4. ✘ d

Question Number : 21 Question Id : 1971 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Nodal analysis is based on

- a. Kirchhoff's Current Law
- b. Kirchhoff's Voltage Law
- c. Law of Conservation of Energy
- d. Law of Conservation of Momentum

Options :

1. ✔ a

2. ✘ b

3. ✘ c

4. ✘ d

Question Number : 22 Question Id : 1972 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following is an active element in a circuit

- a. current source
- b. resistance
- c. inductance
- d. capacitance

Options :

1. ✔ a

2. ✘ b

3. ✘ c

4. ✘ d

Question Number : 23 Question Id : 1973 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The generator which gives DC supply to the rotor is called

- a. Convertor
- b. Exciter
- c. Rectifier
- d. Inverter

Options :

- 1. ✘ a
- 2. ✘ b
- 3. ✘ c
- 4. ✔ d

Question Number : 24 Question Id : 1974 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which of the following is an example of a non-ohmic resistance

- a. Copper wire
- b. Carbon resistance
- c. Diode
- d. Tungsten wire

Options :

- 1. ✘ a
- 2. ✘ b
- 3. ✔ c
- 4. ✘ d

Question Number : 25 Question Id : 1975 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which of the following Boolean expression is NOT TRUE?

- a. $A+1=A$
- b. $A+A'=1$
- c. $A.A=A$
- d. $A.A'=0$

Options :

- 1. ✔ a

2. ✘ b

3. ✘ c

4. ✘ d

Question Number : 26 Question Id : 1976 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The octal equivalent of decimal number 66 is

a. 102

b. 104

c. 84

d. 82

Options :

1. ✔ a

2. ✘ b

3. ✘ c

4. ✘ d

Question Number : 27 Question Id : 1977 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which of the following is a universal gate

a. NOR

b. AND

c. OR

d. NOT

Options :

1. ✔ a

2. ✘ b

3. ✘ c

4. ✘ d

Question Number : 28 Question Id : 1978 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The transistor configuration producing highest output resistance is

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

Options :

- 1. ✘ a
- 2. ✔ b
- 3. ✘ c
- 4. ✘ d

Question Number : 29 Question Id : 1979 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The Schottky-barrier diode has

- a. no PN junction
- b. one PN junction
- c. two PN junctions
- d. three PN junction

Options :

- 1. ✔ a
- 2. ✘ b
- 3. ✘ c
- 4. ✘ d

Question Number : 30 Question Id : 1980 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The diode that can be used for harmonic generation is

- a. backward diode
- b. PN junction diode
- c. tunnel diode
- d. varactor diode

Options :

- 1. ✘ a
- 2. ✘ b

3. ✘ c

4. ✔ d

Question Number : 31 Question Id : 1981 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The temperature coefficient of intrinsic semiconductors is

- a. zero
- b. positive
- c. negative
- d. same as that of metals

Options :

1. ✘ a

2. ✘ b

3. ✔ c

4. ✘ d

Question Number : 32 Question Id : 1982 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Mobility of electrons is highest in

- a. Si
- b. GeAs
- c. C
- d. Ge

Options :

1. ✘ a

2. ✘ b

3. ✘ c

4. ✔ d

Question Number : 33 Question Id : 1983 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Tunnel diode is made of the semiconductors which are

- a. highly doped
- b. sparsely doped
- c. intrinsic
- d. normally doped

Options :

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

Question Number : 34 Question Id : 1984 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

$A+A'$ has the logic value

- a. 0
- b. 1
- c. A
- d. A'

Options :

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

Question Number : 35 Question Id : 1985 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The specific gravity of water is taken as

- a. 0.001
- b. 0.01
- c. 0.1
- d. 1

Options :

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

Question Number : 36 Question Id : 1986 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Falling drops of water become spheres due to the property of

- a. Surface tension of water
- b. Compressibility of water
- c. Capillarity of water
- d. Viscosity of water

Options :

- 1. ✓ a
- 2. ✗ b
- 3. ✗ c
- 4. ✗ d

Question Number : 37 Question Id : 1987 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The liquid used in manometer should have

- a. Low density
- b. High density
- c. Low surface tension
- d. High surface tension

Options :

- 1. ✗ a
- 2. ✗ b
- 3. ✗ c
- 4. ✓ d

Question Number : 38 Question Id : 1988 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

A soil has a liquid limit of 40% and plasticity index of 20% . The plastic limit of the soil will be

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

Options :

- 1. ✓ a
- 2. ✗ b
- 3. ✗ c

4. ✘ d

Question Number : 39 Question Id : 1989 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In a particular soil sample, laboratory analysis has yielded the following results:

A. Sand - 20%

B. Silt - 30%

C. Clay - 50%

Without using the textural chart, the correct textural classification of the soil would be

a. Loam

b. Sandy soil

c. Silty loam

d. Clay

Options :

1. ✘ a

2. ✘ b

3. ✘ c

4. ✔ d

Question Number : 40 Question Id : 1990 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Permissible shear stress in concrete is a function of

a. Grade of concrete

b. Grade of steel

c. Percentage of steel reinforcement

d. Percentage of steel reinforcement and grade of concrete

Options :

1. ✘ a

2. ✘ b

3. ✘ c

4. ✔ d

Question Number : 41 Question Id : 1991 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In which of the following case we avoid bolted connection

- a. Connection subjected to fire
- b. Connection subjected to frequent earthquake load
- c. Connection subjected to snow load
- d. Connection subjected to corrosion problem

Options :

- 1. ✘ a
- 2. ✔ b
- 3. ✘ c
- 4. ✘ d

Question Number : 42 Question Id : 1992 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

For a well conditional triangle, no angle should be less than

- a. 20°
- b. 30°
- c. 45°
- d. 60°

Options :

- 1. ✘ a
- 2. ✔ b
- 3. ✘ c
- 4. ✘ d

Question Number : 43 Question Id : 1993 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

What is the magnetic declination at a place if the magnetic bearing of the sun
at noon is 184° ?

- a. 4°W
- b. 4°E
- c. 176°W
- d. 176°E

Options :

- 1. ✔ a
- 2. ✘ b
- 3. ✘ c

4. ✘ d

Question Number : 44 Question Id : 1994 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Slack represents the difference between the

- a. Earliest completion time and latest allowable time
- b. Latest allowable time and earliest completion time
- c. Earliest completion time and normal expected time
- d. Latest allowable time and normal allowable time

Options :

1. ✔ a

2. ✘ b

3. ✘ c

4. ✘ d

Question Number : 45 Question Id : 1995 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The setting and hardening of cement after addition of water is due to

- a. The presence of gypsum
- b. Binding action of water
- c. Hydration of some of the constituent compounds of cement
- d. Evaporation of water

Options :

1. ✘ a

2. ✘ b

3. ✔ c

4. ✘ d

Question Number : 46 Question Id : 1996 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Grading of aggregate in a concrete mix is necessary to achieve

- a. Adequate workability
- b. Higher density
- c. Reduction in voids
- d. Better durability

Options :

1. ✘ a

2. ✘ b

3. ✔ c

4. ✘ d

Question Number : 47 Question Id : 1997 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

LVDT is a

- a. pressure transducer
- b. displacement transducer
- c. velocity transducer
- d. acceleration transducer

Options :

1. ✘ a

2. ✔ b

3. ✘ c

4. ✘ d

Question Number : 48 Question Id : 1998 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The dimensions of EMF are

- a. $ML^2I^{-1}T^{-3}$
- b. $M^{-1}T^{-3}$
- c. $ML^2I^{-2}T^{-3}$
- d. $ML^3I^{-1}T^{-3}$

Options :

1. ✔ a

2. ✘ b

3. ✘ c

4. ✘ d

Question Number : 49 Question Id : 1999 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Magnetic field intensity has the dimensions

- a. IL
- b. I^2L
- c. IL^{-1}
- d. IL^{-2}

Options :

1. ✘ a

2. ✘ b

3. ✔ c

4. ✘ d

Question Number : 50 Question Id : 2000 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

When measuring phase angle between two waves using a CRO, the time base generator is connected to

- a. X plate
- b. Y plate
- c. both X and Y plate
- d. neither X nor Y plates

Options :

1. ✘ a

2. ✘ b

3. ✘ c

4. ✔ d

Question Number : 51 Question Id : 2001 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which of the following is not correct?

- a. Voltmeter should have a very high resistance
- b. An ammeter should have a very low resistance
- c. A shunt should have a very low resistance
- d. An electronic voltmeter draws appreciable current from source

Options :

1. ✘ a

2. ✘ b

3. ✘ c

4. ✔ d

Question Number : 52 Question Id : 2002 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The prescribed per capita water demand for small towns and city is

- a. 135 lpcd
- b. 100 lpcd
- c. 200 lpcd
- d. 180 lpcd

Options :

- 1. ✓ a
- 2. ✗ b
- 3. ✗ c
- 4. ✗ d

Question Number : 53 Question Id : 2003 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The spacing between two bars in fine screen is

- a. 20 mm
- b. 30 mm
- c. 10 mm
- d. 5 mm

Options :

- 1. ✗ a
- 2. ✗ b
- 3. ✓ c
- 4. ✗ d

Question Number : 54 Question Id : 2004 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

In villages, to disinfect the well water, the most common disinfectant used is

- a. silver and bromine
- b. potassium permanganate
- c. iodine solution
- d. chlorine and bromine

Options :

- 1. ✗ a
- 2. ✓ b
- 3. ✗ c
- 4. ✗ d

Question Number : 55 Question Id : 2005 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The carbon monoxide causes

- a. coughing and choking problem in respiratory system
- b. broncho-constriction
- c. headache, vomiting, slurring of speech, convulsions, coma and death
- d. chronic bronchitis followed by asthma

Options :

- 1. ✘ a
- 2. ✘ b
- 3. ✔ c
- 4. ✘ d

Question Number : 56 Question Id : 2006 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

An octave band is a frequency band with upper and lower cut-off frequencies having a ratio of

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

Options :

- 1. ✘ a
- 2. ✘ b
- 3. ✔ c
- 4. ✘ d

Question Number : 57 Question Id : 2007 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The CO₂ concentration in the atmosphere was 355 ppm in 1990 that is increasing at a rate of

- a. 1.00 ppm
- b. 1.5 ppm
- c. 0.50 ppm
- d. 0.20 ppm

Options :

- 1. ✘ a
- 2. ✔ b

3. ✘ c

4. ✘ d

Question Number : 58 Question Id : 2008 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

_____ gave stored program concept in which program and data to be processed are stored in the same memory.

- a. John Von Neumann
- b. Alan Turing
- c. Charles Babbage
- d. Bill Gates

Options :

1. ✔ a

2. ✘ b

3. ✘ c

4. ✘ d

Question Number : 59 Question Id : 2009 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following is the most simple, intuitive, and easiest to use of all input devices?

- a. Mouse
- b. Trackball
- c. Keyboard
- d. Touch screen

Options :

1. ✘ a

2. ✘ b

3. ✘ c

4. ✔ d

Question Number : 60 Question Id : 2010 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Both RAM and ROM are

- a. Random access memory
- b. Sequential access memory
- c. Read and write memory
- d. Read only memory

Options :

- 1. ✓ a
- 2. ✗ b
- 3. ✗ c
- 4. ✗ d

Question Number : 61 Question Id : 2011 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Unix is a _____ operating system.

- a. Single-user and time-sharing
- b. Multi-user and time-sharing
- c. Multi-user and distributed
- d. Real-time

Options :

- 1. ✗ a
- 2. ✓ b
- 3. ✗ c
- 4. ✗ d

Question Number : 62 Question Id : 2012 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The decimal representation of the binary number $(101010.011)_2$ is

- a. 42.25
- b. 24.25
- c. 24.375
- d. 42.375

Options :

- 1. ✗ a
- 2. ✗ b
- 3. ✗ c
- 4. ✓ d

Question Number : 63 Question Id : 2013 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Considering X and Y as binary variables, the Boolean expression $X.Y.0$ 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 : 2014 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Assembly language is a

- a. Machine independent language
- b. Machine dependent language
- c. High-level language
- d. Language which requires interpreter

Options :

- 1. ✘ a
- 2. ✔ b
- 3. ✘ c
- 4. ✘ d

Question Number : 65 Question Id : 2015 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Mail-merge is a component of

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

Options :

- 1. ✔ a
- 2. ✘ b
- 3. ✘ c
- 4. ✘ d

Question Number : 66 Question Id : 2016 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Internet is a

- a. Local Area Network (LAN)
- b. Metropolitan Area Network (MAN)
- c. Wide Area Network (WAN)
- d. Storage Area Network (SAN)

Options :

- 1. ✘ a
- 2. ✘ b
- 3. ✔ c
- 4. ✘ d

Question Number : 67 Question Id : 2017 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Google Chrome is a

- a. Application layer protocol
- b. Web search engine
- c. Web browser
- d. Web data store

Options :

- 1. ✘ a
- 2. ✘ b
- 3. ✔ c
- 4. ✘ d

Question Number : 68 Question Id : 2018 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The “front view” and “top view” of a line are represented below and above the XY line respectively. The projections are drawn in:

- a. First angle
- b. Second angle
- c. Third angle
- d. It's an orthographic projection

Options :

- 1. ✔ a
- 2. ✘ b
- 3. ✘ c
- 4. ✘ d

Question Number : 69 Question Id : 2019 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following is not a type of bearing:

- a. Thrust bearing
- b. Journal Bearing
- c. Ball bearing
- d. Pulley.

Options :

- 1. ✘ a
- 2. ✘ b
- 3. ✘ c
- 4. ✔ d

Question Number : 70 Question Id : 2020 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Very small parts of a wrist watch are to be represented on drawings. Which type of scale do you suggest?

- a. Reducing scales
- b. full size scales
- c. enlarging scales,
- d. Scales with R.F.=1:1

Options :

- 1. ✘ a
- 2. ✘ b
- 3. ✔ c
- 4. ✘ d

Question Number : 71 Question Id : 2021 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Major axis and Minor Axis are found in:

- a. Circle
- b. Ellipse
- c. Cycloid
- d. Involute.

Options :

- 1. ✘ a
- 2. ✔ b

3. ✘ c

4. ✘ d

Question Number : 72 Question Id : 2022 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The size of vertical and horizontal edges on an object appear in its isometric projection as

- a. shortened by 81%
- b. shortened by 30%
- c. shortened by 19%
- d. shortened by 29%

Options :

1. ✘ a

2. ✘ b

3. ✔ c

4. ✘ d

Question Number : 73 Question Id : 2023 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A ball is rolled on a floor. Moving in straight line, it stops after some time due to frictional force exerted by the floor. Which of the following statements about acceleration and force during the motion of the ball is correct?

- a. Both acceleration and force are positive
- b. Both acceleration and force are negative
- c. Acceleration is positive but force is negative
- d. Acceleration is negative but force is positive.

Options :

1. ✘ a

2. ✔ b

3. ✘ c

4. ✘ d

Question Number : 74 Question Id : 2024 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Let g be the acceleration due to gravity at a place on earth (mass M and radius R). The ratio g/G at the place is given by (G - Universal gravitational constant)

- a. M/R
- b. M/R^2
- c. MR
- d. MR^2 .

Options :

- 1. ✘ a
- 2. ✔ b
- 3. ✘ c
- 4. ✘ d

Question Number : 75 Question Id : 2025 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A ball of mass m is raised to height h and then dropped to the ground. When the ball has fallen half of the height, the velocity of the ball is (neglecting air resistance), where g is the acceleration due to gravity.

- a. $\sqrt{g h}$
- b. $\sqrt{2g h}$
- c. $\sqrt{g h/2}$
- d. $2\sqrt{g h}$.

Options :

- 1. ✔ a
- 2. ✘ b
- 3. ✘ c
- 4. ✘ d

Question Number : 76 Question Id : 2026 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Three tuning forks (of different frequencies) are used to produce sound in a science Laboratory. Which of the following statements is correct?

- a. The wavelength of sound produced by the tuning fork of highest frequency is smallest
- b. The wavelength of sound produced by the tuning fork of highest frequency is largest
- c. The velocities of sound produced by the three tuning forks are different
- d. The pitch of sound produced by the tuning fork of lowest frequency is highest.

Options :

- 1. ✓ a
- 2. ✗ b
- 3. ✗ c
- 4. ✗ d

Question Number : 77 Question Id : 2027 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

An image of an object is seen in a plane mirror. The image is

- a. real and inverted
- b. real and erect
- c. virtual and inverted
- d. virtual and erect

Options :

- 1. ✗ a
- 2. ✗ b
- 3. ✗ c
- 4. ✓ d

Question Number : 78 Question Id : 2028 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

A current of 1A flows towards right in a conductor. The number of electrons passing per second through any cross section of the conductor and their direction is about

- a. 6×10^{18} towards right
- b. 6×10^{18} towards left
- c. 6×10^{16} towards right
- d. 6×10^{16} towards left.

Options :

- 1. ✗ a
- 2. ✓ b

3. ✘ c

4. ✘ d

Question Number : 79 Question Id : 2029 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The oxide of an element 'A' can react separately with an acid and a base to produce salt and water.

- a. The element 'A' is metallic and the oxide is amphoteric.
- b. The element 'A' is metallic and the oxide is basic.
- c. The element 'A' is non metallic and the oxide is acidic.
- d. The element 'A' is non metallic and the oxide is amphoteric.

Options :

1. ✔ a

2. ✘ b

3. ✘ c

4. ✘ d

Question Number : 80 Question Id : 2030 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

. Which one of the following sets of conditions favours the liquefaction of gases?

- a. Low pressure and low temperature
- b. High pressure and high temperature
- c. High pressure and low temperature
- d. Low pressure and high temperature

Options :

1. ✘ a

2. ✘ b

3. ✔ c

4. ✘ d

Question Number : 81 Question Id : 2031 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

What is the value of the coefficient 'A' in the following chemical equation?



- a. 3
- b. 4
- c. 5
- d. 6

Options :

- ✘ a
- ✘ b
- ✘ c
- ✔ d

Question Number : 82 Question Id : 2032 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

On hydration, a hydrocarbon 'X' produces a compound 'Y' with molecular formula C_2H_6O . 'X' forms a dibromo compound with bromine. The compound 'Y' produces a carboxylic acid on oxidation with acidified $K_2Cr_2O_7$. The hydrocarbon 'X' is

- Ethene
- Ethane
- Propane
- Propene

Options :

- ✔ a
- ✘ b
- ✘ c
- ✘ d

Question Number : 83 Question Id : 2033 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which one of the following is the greatest in atomic size?

- Aluminum
- Magnesium
- Sodium
- potassium

Options :

- ✘ a
- ✘ b
- ✘ c
- ✔ d

Question Number : 84 Question Id : 2034 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

An acid solution is completely neutralized by a base. The pH of the salt solution so produced is

- a. 14
- b. 7
- c. 5
- d. 0

Options :

- 1. ✘ a
- 2. ✔ b
- 3. ✘ c
- 4. ✘ d

Question Number : 85 Question Id : 2035 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Cousins were discussing amongst themselves as to whose features resemble those of which elder in the family. Which subject can explain their conclusions?

- a. Evolution
- b. Genetics
- c. Adaptation
- d. Physiology

Options :

- 1. ✘ a
- 2. ✔ b
- 3. ✘ c
- 4. ✘ d

Question Number : 86 Question Id : 2036 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Roots absorb water from soil but which plant tissue reaches the water to the leaves for Photosynthesis?

- a. Xylem
- b. Phloem
- c. Parenchyma
- d. Collenchyma

Options :

- 1. ✓ a
- 2. ✗ b
- 3. ✗ c
- 4. ✗ d

Question Number : 87 Question Id : 2037 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which human activity alone has caused many wild animals to become extinct?

- a. Hunting
- b. Mining
- c. Electrification
- d. Deforestation

Options :

- 1. ✗ a
- 2. ✗ b
- 3. ✗ c
- 4. ✓ d

Question Number : 88 Question Id : 2038 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A plant and an animal cell were focused under the microscope. Which features helped students to differentiate the two

- a. Plant cell and animal cell both had nuclei
- b. Plant cell had a cell wall but animal cell did not.
- c. Animal cell had a cell membrane but plant cell did not
- d. Animal cell had a large vacuole but plant cell did not

Options :

- 1. ✗ a
- 2. ✓ b

3. ✘ c

4. ✘ d

Question Number : 89 Question Id : 2039 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If both kidneys of a patient fail, an artificial kidney can help the patient live on through the process of

- a. Electrolysis
- b. Dialysis
- c. Blood Transfusion
- d. Gene therapy

Options :

1. ✘ a

2. ✔ b

3. ✘ c

4. ✘ d

Question Number : 90 Question Id : 2040 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The term “Biodiversity” means

- a. all kinds of plants and animals in the forests
- b. all the various species of organisms living on earth
- c. various types of animals living on earth
- d. the five kingdoms of life except thermo bacteria

Options :

1. ✘ a

2. ✔ b

3. ✘ c

4. ✘ d

Question Number : 91 Question Id : 2041 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Let x be the greatest number that divides 952, 1165 and 1591 leaving the same remainder in each case. The sum of digits of x is

- a. 4
- b. 5
- c. 6
- d. 7

Options :

1. ✘ a
2. ✘ b
3. ✔ c
4. ✘ d

Question Number : 92 Question Id : 2042 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Let $x=5^4 \times 7^3 \times 19^3$, $y=5^3 \times 7^4 \times 19^3$, $z=5^5 \times 7^5 \times 19^3$ and $w=5^3 \times 7^5 \times 19^4$

The LCM of x, y, z and w is

- a. $5^5 \times 7^4 \times 19^4$
- b. $(35)^5 \times 19^4$
- c. $(35)^4 \times 19$
- d. $5^4 \times 7^5 \times 19^4$

Options :

1. ✘ a
2. ✔ b
3. ✘ c
4. ✘ d

Question Number : 93 Question Id : 2043 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A's income is 10% below C's income and B's income is 20% above C's income. What percent is B's income of A's income.

- a. 75
- b. $109\frac{1}{11}$
- c. 130
- d. $133\frac{1}{3}$

Options :

1. ✘ a
2. ✘ b
3. ✘ c
4. ✔ d

Question Number : 94 Question Id : 2044 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If $A : B = 2:3$, $7B = 9C$ and $15C = 14D$, then $A : D$ is

- a. 5:4
- b. 4:5
- c. 12:35
- d. 1:7

Options :

- 1. ✘ a
- 2. ✔ b
- 3. ✘ c
- 4. ✘ d

Question Number : 95 Question Id : 2045 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The ratio of two numbers is 15:13. If each number is increase by 3, then their ratio becomes 8:7. The sum of the numbers is

- a. 28
- b. 42
- c. 56
- d. 84

Options :

- 1. ✘ a
- 2. ✘ b
- 3. ✘ c
- 4. ✔ d

Question Number : 96 Question Id : 2046 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

In one alloy the ratio of zinc and copper is 2:11 whereas in the other one, this ratio is 5:21. In what ratio the two be mixed so that the ratio of zinc and copper in the new alloy is 1:5?

- a. 2:1
- b. 3:2
- c. 4:3
- d. 5:3

Options :

- 1. ✔ a
- 2. ✘ b

3. ✘ c

4. ✘ d

Question Number : 97 Question Id : 2047 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A jar was full of a mixture containing 40% spirit. A part of this mixture was replaced by another mixture containing 19% spirit. If the percentage of spirit was found to be 26, what part of the jar was replaced by another mixture?

a. $\frac{1}{3}$

b. $\frac{2}{3}$

c. $\frac{2}{5}$

d. $\frac{3}{5}$

Options :

1. ✘ a

2. ✔ b

3. ✘ c

4. ✘ d

Question Number : 98 Question Id : 2048 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A loan of Rs.25500 is to be paid back in two equal annual instalments. If the rate of interest charged is 4% per annum, compounded annually. Then each instalment will be of Rs.

a. 12750

b. 13250

c. 13320

d. 13520

Options :

1. ✘ a

2. ✘ b

3. ✘ c

4. ✔ d

Question Number : 99 Question Id : 2049 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A sum of Rs.20000 is lent partly at 8 % and remaining at 10% per annum. If the average yearly rate of interest is 9.4 %, then the sum lent at 10 % is

- a. Rs.6000
- b. Rs.8000
- c. Rs.12000
- d. Rs.14000

Options :

- 1. ✘ a
- 2. ✘ b
- 3. ✘ c
- 4. ✔ d

Question Number : 100 Question Id : 2050 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A trader marks his goods 20% above the cost price but allows the customer a discount of 5% on it. If he further gives 5% discount for cash payment, then his profit percent in this case is

- a. 10
- b. 9.2
- c. 8.3
- d. 8.1

Options :

- 1. ✘ a
- 2. ✘ b
- 3. ✔ c
- 4. ✘ d

Question Number : 101 Question Id : 2051 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A person buys goods for Rs.96000. He sells $\frac{2}{5}$ of it at a loss of 6%. At what gain percent should he sell the remaining part to gain 10% on the whole?

- a. $20\frac{2}{3}$
- b. $19\frac{1}{3}$
- c. 15
- d. 16

Options :

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

Question Number : 102 Question Id : 2052 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A Scooterist travels for 10 hours, the first half distance at 21 km/hour and the rest at 24 km/hour. The distance (in km) travelled is

- a. 225
- b. 224
- c. 220
- d. 180

Options :

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

Question Number : 103 Question Id : 2053 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A man rows upstream 13 km and downstream 28 km taking 5 hours each time. The speed (in km per hour) of the current is

- a. $1\frac{1}{4}$
- b. $1\frac{1}{2}$
- c. $2\frac{1}{4}$
- d. 3

Options :

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

4. ✘ d

Question Number : 104 Question Id : 2054 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A can do a piece of work in 40 days. He worked for 5 days, then B finished it in 21 days. A and B together can finish the work in

- a. 24 days
- b. 20 days
- c. 15 days
- d. 12 days

Options :

1. ✘ a

2. ✘ b

3. ✔ c

4. ✘ d

Question Number : 105 Question Id : 2055 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A certain number of persons can do a piece of work in 40 days, but if there were 8 persons more, it would have been finished 10 days earlier. How many persons were there in the beginning?

- a. 28
- b. 24
- c. 20
- d. 18

Options :

1. ✘ a

2. ✔ b

3. ✘ c

4. ✘ d

Question Number : 106 Question Id : 2056 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Five years ago, the average age of A and B was 18 years. The average age of A, B, C and D today is 24 years. The average age of D and C after 8 years from today will be

- a. 21
- b. 29
- c. 30
- d. 33

Options :

1. ✘ a

2. ✘ b

3. ✘ c

4. ✓ d

Question Number : 107 Question Id : 2057 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The average of five consecutive odd numbers is 27. The average of first three of them, when arranged in ascending order, is

- a. 25
- b. 26
- c. 27
- d. 23

Options :

- 1. ✓ a
- 2. ✗ b
- 3. ✗ c
- 4. ✗ d

Question Number : 108 Question Id : 2058 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If α and β are the roots of the equation $ax^2+bx+c=0$, then the roots of the equation $cx^2+bx+a=0$ are

- a. $-\alpha, -\beta$
- b. $\frac{1}{\alpha}, \frac{1}{\beta}$
- c. $\frac{1}{\alpha}, \alpha$
- d. $\frac{1}{\beta}, \alpha$

Options :

- 1. ✗ a
- 2. ✓ b
- 3. ✗ c
- 4. ✗ d

Question Number : 109 Question Id : 2059 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If the equation $(n+1)x^2 - 4(n+2)x + 25 = 0$ has equal roots, then the values of n are

- a. $\frac{-3}{4}, \frac{3}{4}$
- b. 3, -3
- c. 3, $\frac{-3}{4}$
- d. -3, $\frac{4}{3}$

Options :

- 1. ✗ a
- 2. ✗ b

3. ✓ c

4. ✗ d

Question Number : 110 Question Id : 2060 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

One of the factors of $(x+1)(x+3)(x+5)(x+7)-9$ is

a. x^2+8x+6

b. $x^2+8x+10$

c. x^2+8x+9

d. x^2+8x+8

Options :

1. ✓ a

2. ✗ b

3. ✗ c

4. ✗ d

Question Number : 111 Question Id : 2061 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Factorisation of $x^4 - 9x^2 + 20$ is

a. $(x-4)(x+1)(x^2-5)$

b. $(x-2)(x-2)(x^2+5)$

c. $(x+4)(x+1)(x^2-5)$

d. $(x-2)(x+2)(x^2-5)$

Options :

1. ✗ a

2. ✗ b

3. ✗ c

4. ✓ d

Question Number : 112 Question Id : 2062 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If $(p+2)$ th term of an arithmetic series is $5p+6$, then the sum of its first five terms is

a. 44

b. 49

c. 54

d. 55

Options :

1. ✗ a

2. ✗ b

3. ✗ c

4. ✓ d

Question Number : 113 Question Id : 2063 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If the sum of an infinite number of terms of a geometric series is 20, and sum of their squares is 100, then the common ratio of the original series is

- a. $\frac{3}{5}$
- b. $\frac{2}{5}$
- c. $\frac{3}{4}$
- d. $\frac{1}{4}$

Options :

- 1. ✓ a
- 2. ✗ b
- 3. ✗ c
- 4. ✗ d

Question Number : 114 Question Id : 2064 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The value of $\cos\theta \cdot \cot\theta \left[\frac{1}{\operatorname{cosec}\theta - 1} + \frac{1}{\operatorname{cosec}\theta + 1} \right]$ is

- a. $\frac{1}{2}$
- b. 1
- c. $\frac{3}{2}$
- d. 2

Options :

- 1. ✗ a
- 2. ✗ b
- 3. ✗ c
- 4. ✓ d

Question Number : 115 Question Id : 2065 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A tower of height 40m stands vertically on the ground. From a point on the ground which is x m away from the foot of the tower, the angle of elevation of its top is found to be 60° . If y is the distance (in m) of the point from the top of the tower, then the value of (x+y) is

- a. $40\sqrt{3}m$
- b. $\frac{80\sqrt{3}m}{3}$
- c. $80\sqrt{3}m$
- d. $120\sqrt{3}m$

Options :

1. ✓ a
2. ✗ b
3. ✗ c
4. ✗ d

Question Number : 116 Question Id : 2066 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

With which of the following centres of learning, Chanakya, the famous teacher of Chandragupta Maurya was associated?

- a. Takshashila
- b. Nalanda
- c. Vikramsila
- d. Vaishali

Options :

1. ✓ a
2. ✗ b
3. ✗ c
4. ✗ d

Question Number : 117 Question Id : 2067 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The famous battle of Takkolam of South India was fought between

- a. Cholas and North Chalukyas
- b. Cholas and Rashtrakutas
- c. Cholas and Hoyasals
- d. Cholas and Pandyas

Options :

1. ✗ a
2. ✓ b
3. ✗ c
4. ✗ d

Question Number : 118 Question Id : 2068 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which Congress President negotiated with both Cripps Mission and Lord Wavell?

- a. Abul Kalam Azad
- b. Jawahar Lal Nehru
- c. JB Kriplani
- d. C.Rajgopalachari

Options :

- 1. ✓ a
- 2. ✗ b
- 3. ✗ c
- 4. ✗ d

Question Number : 119 Question Id : 2069 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Because of which one of the following reason, clouds do not precipitate in deserts?

- a. Low Pressure
- b. Low Humidity
- c. High wind velocity
- d. High temperature

Options :

- 1. ✗ a
- 2. ✓ b
- 3. ✗ c
- 4. ✗ d

Question Number : 120 Question Id : 2070 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The atmospheric layer which reflects radio waves is called

- a. Exosphere
- b. Stratosphere
- c. Ionosphere
- d. Thermosphere

Options :

- 1. ✗ a
- 2. ✗ b
- 3. ✓ c
- 4. ✗ d

Question Number : 121 Question Id : 2071 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In the interior of Earth ,

- a. temperature falls with increasing depth
- b. pressure falls with increasing depth
- c. temperature rises with increasing depth
- d. both temperature and pressure fall with increasing depth

Options :

- 1. ✘ a
- 2. ✘ b
- 3. ✔ c
- 4. ✘ d

Question Number : 122 Question Id : 2072 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

If an object is placed at the centre of curvature of a concave mirror, the position of image is

- a. at the principal focus
- b. between the principal focus and the centre of curvature
- c. at centre of curvature
- d. beyond centre of curvature

Options :

- 1. ✘ a
- 2. ✔ b
- 3. ✘ c
- 4. ✘ d

Question Number : 123 Question Id : 2073 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

In which of the following, speed of sound is maximum

- a. air at 0°C
- b. air at 100°C
- c. in the water
- d. in the wood

Options :

- 1. ✘ a
- 2. ✘ b

3. ✘ c

4. ✔ d

Question Number : 124 Question Id : 2074 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Microwave oven consumes less power due to

- a. small frequency of radiation
- b. short wavelength of radiation
- c. large frequency as well as wavelength of radiation
- d. small frequency as well as wavelength of radiation

Options :

1. ✔ a

2. ✘ b

3. ✘ c

4. ✘ d

Question Number : 125 Question Id : 2075 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which Amendment to the Constitution inserted a new Article 21 A providing rights to education in the Constitution ?

- a. 86th Amendment
- b. 87th Amendment
- c. 88th Amendment
- d. 89th Amendment

Options :

1. ✔ a

2. ✘ b

3. ✘ c

4. ✘ d

Question Number : 126 Question Id : 2076 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which one of the following subjects comes under the common jurisdiction of the Supreme Court and the high court?

- a. Mutual disputes among states
- b. Dispute between centre and states
- c. Protection of the fundamental rights
- d. protection from the violation of the constitution.

Options :

1. ✘ a
2. ✘ b
3. ✔ c
4. ✘ d

Question Number : 127 Question Id : 2077 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following is the name of the organisation, created to provide full employment and self-reliance to the women folk in India

- a. OECD
- b. ROSCA
- c. USO
- d. SEWA

Options :

1. ✘ a
2. ✘ b
3. ✘ c
4. ✔ d

Question Number : 128 Question Id : 2078 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which one of the following committees recommended the abolition of reservation of items for small scale sector in industry

- a. Abid Hussain Committee
- b. Narasimhan Committee
- c. Nayak Committee
- d. Rakesh Mohan Committee

Options :

1. ✔ a
2. ✘ b
3. ✘ c
4. ✘ d

Question Number : 129 Question Id : 2079 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Shilling is the currency of

- a. Kenya
- b. South Korea
- c. Israel
- d. Ghana

Options :

- 1. ✓ a
- 2. ✗ b
- 3. ✗ c
- 4. ✗ d

Question Number : 130 Question Id : 2080 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which one of the following is the oldest Grand Slam of the World

- a. Wimbledon
- b. French Open
- c. Australian Open
- d. US Open

Options :

- 1. ✓ a
- 2. ✗ b
- 3. ✗ c
- 4. ✗ d

Question Number : 131 Question Id : 2081 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The Dronacharya award for sports coaches was instituted in the year _____ .

- a. 1984
- b. 1985
- c. 1987
- d. 1988

Options :

- 1. ✗ a
- 2. ✓ b
- 3. ✗ c
- 4. ✗ d

Question Number : 132 Question Id : 2082 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Number of chamber found in the heart of whale is

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

Options :

- 1. ✘ a
- 2. ✘ b
- 3. ✔ c
- 4. ✘ d

Question Number : 133 Question Id : 2083 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Match the hormone in list 1 with list 2 and select the correct answer using codes given below

list-1	list-2
A. Adrenaline	1. Anger, fear, danger
B. Estrogen	2. Attracting partners through sense of smell
C. Insulin	3. Females
D. Pheromones	4. Glucose

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

Options :

- 1. ✘ a
- 2. ✘ b
- 3. ✔ c
- 4. ✘ d

Question Number : 134 Question Id : 2084 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

For a colour blind person, red colour appears as

- a. Yellow
- b. Blue
- c. Green
- d. Violet

Options :

- 1. ✘ a
- 2. ✘ b
- 3. ✔ c
- 4. ✘ d

Question Number : 135 Question Id : 2085 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The catalyst used in the manufacture of the sulphuric acid by contact process is

- a. Al_2O_3
- b. Cr_2O_3
- c. V_2O_5
- d. MnO_2

Options :

- 1. ✘ a
- 2. ✘ b
- 3. ✔ c
- 4. ✘ d

Question Number : 136 Question Id : 2086 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which one of the following pairs of materials serves as electrodes in chargeable batteries commonly used in devices such as torch lights, electric shavers etc?

- a. Nickel and cadmium
- b. Zinc and carbon
- c. lead peroxide and lead
- d. Iron and cadmium

Options :

- 1. ✔ a
- 2. ✘ b
- 3. ✘ c

4. ✘ d

Question Number : 137 Question Id : 2087 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which one of the following vitamins is essential for coagulation of blood?

- a. Vitamin A
- b. Vitamin B₁₂
- c. Vitamin K
- d. Vitamin D

Options :

1. ✘ a

2. ✘ b

3. ✔ c

4. ✘ d

Question Number : 138 Question Id : 2088 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which three districts have been included into the national capital Region on June 09,2015?

- a. Jind,Karnal,Muzaffarnagar
- b. Jind,karnal , rohtak
- c. Palwal,karnal, Muzaffarnagar
- d. Bhiwani, Rohtak,karnal

Options :

1. ✔ a

2. ✘ b

3. ✘ c

4. ✘ d

Question Number : 139 Question Id : 2089 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The sixth Petersberg climate dialogue to decide on a negotiation draft for the UN Climate change conference in Paris held in which city on may 18-19,2015

- a. Tokyo
- b. Shanghai
- c. Kyoto
- d. Berlin

Options :

1. ✘ a

2. ✘ b

3. ✘ c

4. ✔ d

Question Number : 140 Question Id : 2090 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The state ,which signed \$400 million loan pact with WTO on june 4, 2015 is.....

- a. Andhra pradesh
- b. Telangana
- c. kerala
- d. Tamil nadu

Options :

- 1. ✘ a
- 2. ✘ b
- 3. ✘ c
- 4. ✔ d

Question Number : 141 Question Id : 2091 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Pointing to a photograph, a lady said, “He is the husband of my husband’s father’s daughter.” How is the person in the photograph related to the lady?

- a. Brother
- b. Brother-in-Law
- c. Cousin
- d. Son-in-Law

Options :

- 1. ✘ a
- 2. ✔ b
- 3. ✘ c
- 4. ✘ d

Question Number : 142 Question Id : 2092 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

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

63 : 8

- a. 48 : 7
- b. 35 : 6
- c. 15 : 4
- d. 79 : 9

Options :

- 1. ✘ a
- 2. ✘ b
- 3. ✘ c
- 4. ✔ d

Question Number : 143 Question Id : 2093 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

'Book' is related to 'Chapter' in the same way as 'School' is related to

- a. Classrooms
- b. Village
- c. Education
- d. Boundary

Options :

- 1. ✔ a
- 2. ✘ b
- 3. ✘ c
- 4. ✘ d

Question Number : 144 Question Id : 2094 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

In a six member panel sitting in a row, R is to the right of Q and O is to the right of P. S is not sitting close to P. N is between Q and O.

Which two persons are sitting in the middle?

- a. NO
- b. QR
- c. QN
- d. RS

Options :

- 1. ✘ a
- 2. ✘ b
- 3. ✔ c
- 4. ✘ d

Question Number : 145 Question Id : 2095 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. Child 2. Income 3. Birth 4. Employment 5. Education 6. Infant

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

Options :

- 1. ✘ a
- 2. ✘ b
- 3. ✘ c
- 4. ✔ d

Question Number : 146 Question Id : 2096 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

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

2, 4, 6, 10, 14, 20, 26

- a. 6
- b. 10
- c. 14
- d. 20

Options :

1. ✘ a
2. ✔ b
3. ✘ c
4. ✘ d

Question Number : 147 Question Id : 2097 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

In a certain code, '327' means 'girls are beautiful'; '952' means 'leaves are green' and '639' means 'green is beautiful'. Which digit means 'leaves' in that code?

- a. 9
- b. 6
- c. 5
- d. 2

Options :

1. ✘ a
2. ✘ b
3. ✔ c
4. ✘ d

Question Number : 148 Question Id : 2098 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

In a certain language, 'POPULAR' is coded as 'RPAOLPU', then in that language, 'CENTRAL' would be coded as:

- a. LCARTNE
- b. LCEARNT
- c. CLEANRT
- d. LCAERNT

Options :

1. ✘ a
2. ✘ b
3. ✘ c
4. ✔ d

Question Number : 149 Question Id : 2099 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Ravi cycled 7 km Southwards, turned right and covered 4 km. Then he turned right again and moved 10 km. How far is he from the starting point by shortest distance?

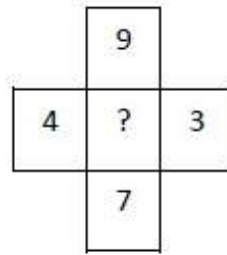
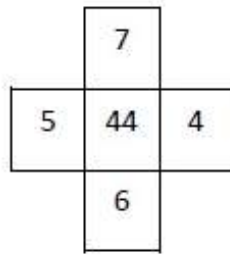
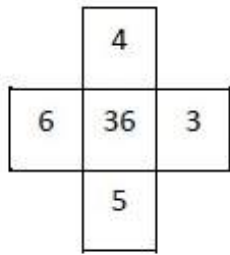
- a. 5 km
- b. 4 km
- c. 6 km
- d. 7 km

Options :

- 1. ✓ a
- 2. ✗ b
- 3. ✗ c
- 4. ✗ d

Question Number : 150 Question Id : 2100 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The numbers in the following figures follow a pattern. Find the number which will replace the question mark.



- a. 66
- b. 69
- c. 52
- d. 112

Options :

- 1. ✗ a
- 2. ✓ b
- 3. ✗ c
- 4. ✗ d