AglaSem Careers

Railway Recruitment Board

Notations :

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

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

Question Paper Name:	Senior Section Engineer 3rd Sep Shift 3 Actual
Subject Name:	Senior Section Engineer
Creation Date:	2015-08-31 13:41:44.0
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Number of Questions:	150
Total Marks:	150.0

Senior Section Engineer

Group Number :	1
Group Id :	42
Group Maximum Duration :	0
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Revisit allowed for view? :	No
Revisit allowed for edit? :	No
Break time:	0
Group Marks:	150.0

Senior Section Engineer

Section Id :	42
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:	42
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 7651 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The area under the T-s diagram curve at any thermodynamic process represents

a. Heat rejected only
b. heat absorbes only
c. work done during the process
d. heat absorbed and rejected

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 2 Question Id : 7652 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which one of the following is correct?

The cyclic integral of (δQ −δW) for a process is:

a. Positive
b. Negative
c. Zero
d. Unpredictable

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 3 Question Id : 7653 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The fundamental unit of enthalpy is

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

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 4 Question Id : 7654 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Units for thermal conductivity

a. J/kg.K
b. J/mol.K
c. J.ohm/sec.K^2
d. W/m.K

Options :
1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 5 Question Id : 7655 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

In which one of the following materials, is the heat energy 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 : 6 Question Id : 7656 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

On heat transfer surface, fins are provided

a. To increase temperature gradient so as to enhance heat transfer
b. To increase turbulence in flow for enhancing heat transfer
c. To increase surface area to promote the rate of heat transfer
d. To decrease the pressure drop of the fluid

Options :
1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 7 Question Id : 7657 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which type of engine is used in heavy commercial vehicle

a. diesel
b. petrol
c. compressed air
d. LPG

Options :
1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 8 Question Id : 7658 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Stroke of engine is

a. volume of the cylinder
b. length of the connecting rod
c. internal dia of cylinder
d. distance between TDC and BDC

Options :
1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 9 Question Id : 7659 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

For the same compression ratio and the same heat input, the correct sequence of the increasing order of the thermal efficiencies of the given cycles is

a. Otto, Diesel, dual

b. Diesel, dual Otto

c. Dual, Diesel, Otto

d. Dual, Otto, Diesel

Options :
1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 10 Question Id : 7660 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Function of turbocharger is

a. to increase the power

b. to decrease the thermal efficiency

c. to reduce the noise

d. to reduce fuel consumption

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 11 Question Id : 7661 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The casting process which is probably responsible for the largest Volume of castings produced is the.....process.

a. Permanent mould casting

b. Die casting

c. Centrifugal casting

d. Sand casting

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 12 Question Id : 7662 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The most important factor for specifying the lathe machine is

a. the maximum diameter of the work it will swing

b. the length of bed

c. the maximum speed of the spindle

d. height of the bed

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 13 Question Id : 7663 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The empty portion of cupola above the preheating zone is called as

a. slack

b. brow

c. billet

d. stack.

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 14 Question Id : 7664 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Metal deposited on to the work piece from the electrode

a. is forced across the arc

b. falls because of gravity

c. is attracted towards the work piece due to the positive polarity of the work piece

d. is attracted towards the work piece due to the negative polarity of the work piece

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 15 Question Id : 7665 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

If a transformer has 50 turns in the primary winding and 10 turns in the secondary winding, what is the reflective resistance if the secondary load resistance is 250 Ω ?

a. 250 Ω
b. 25 Ω
c. 6,250 Ω
d. 62,500 Ω

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 16 Question Id : 7666 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In a d.c. motor, unidirectional torque is produced with the help of

a. brushes
b. commutator
c. end-plates
d. both (a) and (b)

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 17 Question Id : 7667 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The counter e.m.f. of a d.c. motor

a. often exceeds the supply voltage
b. aids the applied voltage
c. helps in energy conversion
d. regulates its armature voltage

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 18 Question Id : 7668 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The normal value of the armature resistance of a d.c. motor is

a. 0.005
b. 0.5
c. 10
d. 100

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 19 Question Id : 7669 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The Eb/V ratio of a d.c. motor is an indication of its

a. efficiency
b. speed regulation
c. starting torque
d. Running Torque

Options :

1. ✔ a

2. ✖ b

3. ✖ c

4. ✖ d

Question Number : 20 Question Id : 7670 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The mechanical power developed by the armature of a d.c. motor is equal to

a. armature current multiplied by back e.m.f.
b. power input minus losses
c. power output multiplied by efficiency
d. power output plus iron losses

Options :

1. ✔ a

2. ✖ b

3. ✖ c

4. ✖ d

Question Number : 21 Question Id : 7671 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The induced e.m.f. in the armature conductors of a d.c. motor is

a. sinusoidal
b. trapezoidal
c. rectangular
d. alternating

Options :

1. ✔ a

2. ✖ b

3. ✖ c

4. ✖ d

Question Number : 22 Question Id : 7672 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The EMF equation $e = N\omega_r\Phi\sin\omega_r t$ is applicable to

a. AC systems with time variant field flux
b. DC systems with time variant field flux
c. both AC and DC systems with time invariant field flux
d. both AC and DC systems with time variant field flux

Options :

1. ✖ a

2. ✖ b

3. ✔ c

4. ✖ d

Question Number : 23 Question Id : 7673 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

In AC rotating machines, the generated or speed EMF

a. leads Φ by 90°
b. lags Φ by 90°
c. is in phase with working flux
d. lags Φ by 180°

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 24 Question Id : 7674 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

In an AC machine, the effect of distributing the turns in different slots, results in a further reduction of generated EMF by the factor k_d . This factor is called

a. distribution/speed factor
b. coil pitch factor
c. winding factor
d. generation factor

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 25 Question Id : 7675 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which of the following is not a property of an amplifier?

a. gain
b. linearity
c. distortion
d. loss

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 26 Question Id : 7676 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Zener diodes are used as:

a. current regulators
b. voltage regulators
c. RF detectors
d. AF detectors

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 27 Question Id : 7677 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

One important application for diodes is recovering information from transmitted signals.This is referred to as:

a. regeneration
b. ionization
c. biasing
d. demodulation

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 28 Question Id : 7678 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The electrodes of a semi-conductor diode are known as:

a. gate and source
b. anode and cathode
c. collector and base
d. cathode and drain

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 29 Question Id : 7679 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

What semi-conductor device glows red, yellow, or green, depending upon its chemical composition?

a. A light-emitting diode
b. A fluorescent bulb
c. A neon bulb
d. A vacuum diode

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 30 Question Id : 7680 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

A transistor can be destroyed in a circuit by:

a. excessive heat
b. excessive light
c. saturation
d. cut-off

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 31 Question Id : 7681 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The two basic types of field effect transistors (FET) are:

a. NPN and PNP
b. germanium and silicon
c. inductive and capacitive
d. N and P channel

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 32 Question Id : 7682 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which component can amplify a small signal but must use high voltages?

a. A vacuum tube
b. A transistor
c. An electrolytic capacitor
d. A multiple-cell battery

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 33 Question Id : 7683 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The diode is an important part of a simple power supply. It converts AC to DC, since it:

a. has a high resistance to AC but not to DC
b. allows electrons to flow in only one direction from cathode to anode
c. has a high resistance to DC but not to AC
d. allows electrons to flow in only one direction from anode to cathode

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 34 Question Id : 7684 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

If two equal-value capacitors are connected in parallel, what is their capacitance?

a. The same value of either capacitor
b. The value of one capacitor times the value of the other
c. Half the value of either capacitor
d. Twice the value of either capacitor

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 35 Question Id : 7685 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

According to IS 516, what is the minimum number of specimen to be tested for estimating the compressive strength

a. 2

b. 3

c. 4

d. 5

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 36 Question Id : 7686 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

A layer of wood formed during one year's growth in a timber is called as

a. Bark

b. All-heart

c. Batch

d. Annual ring

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 37 Question Id : 7687 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

In general, consolidation of soil involves which of the following

a. Expulsion of air

b. Reduction in the shear stress of soil

c. Application of static load

d. Application of dynamic load

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 38 Question Id : 7688 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The time period for which a structure or a structural element is required to perform its function without damage is called as

a. Loading period

b. Design life

c. Life cycle of that structure

d. Serviceability duration

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 39 Question Id : 7689 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If a 6 m high retaining wall retains dry sand of unit weight 18 kN/cubm and if the coeffiecient of at-rest earth pressure is 0.5, then the lateral earth pressure at a depth of 6 m will be

a. 54

b. 9

c. 108

d. 36

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 40 Question Id : 7690 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

In general, the coefficient of thermal expansion of concrete does not depend on which of the following factors

a. Type of cement

b. Type of aggregate

c. The cement content

d. The quality of water

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 41 Question Id : 7691 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which of the following is not applicable to limit state method?

a. The stresses are obtained from design loads and compared with design strengths

b. The method follows linear stress-strain behavior of both the materials i.e. steel and concrete

c. The ultimate stresses of the materials are used as allowable stresses

d. Partial safety factors are used

Options :

1. ✖ a

2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 42 Question Id : 7692 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which of the following does not fall under tensioning devices used for prestressed concrete?

a. Chemical

b. Thermal

c. Hydraulic

d. Rotating

Options :
1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 43 Question Id : 7693 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which of the following is not a non-destructive test used for concrete?

a. Rebound hammer

b. Pull-out

c. Ultra-sonic

d. Direct tensile test

Options :
1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 44 Question Id : 7694 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

In surveying, the triangles having angles smaller than 30 degree are called as

a. Ideal triangles

b. Well-conditioned triangles

c. Ill-conditioned triangles

d. Acute triangles

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 45 Question Id : 7695 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

A liquid undergoing a rigid body rotation in a container is said to have

a. Forced vortex motion

b. Circulation

c. Free vortex motion

d. Translation

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 46 Question Id : 7696 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Cavitation is primarily associated with which of the following fluid properties

a. Specific gravity

b. Surface tension

c. Viscosity

d. Vapour pressure

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 47 Question Id : 7697 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

.Heating effect of current is used in

a. ammeters
b. voltmeters
c. both ammeters and voltmeters
d. wattmeters

Options :

1. ✖ a

2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 48 Question Id : 7698 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

.The instrument used to check insulation of household wiring is

a. megger
b. ohmmeter
c. multimeter
d. high resistance voltmeter

Options :
1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 49 Question Id : 7699 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

.If A = 629 ± 8 and B = 131 ± 3, A - B with range of doubt is

a. 498 ± 8
b. 498 ± 4
c. 498 ± 11
d. 498 ± 13

Options :
1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 50 Question Id : 7700 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

. Which of these instruments has highest power consumption?

a. Dynamometer
b. Electrostatic
c. Moving coil
d. Hot wire

Options :
1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 51 Question Id : 7701 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A power factor meter has

a. one current and one pressure circuit

b. one current circuit and two pressure circuits

c. two current circuits and two pressure circuits

d. two current circuits and one pressure circuit

Options :

1. ✖ a

2. ✔ b

3. ✖ c

4. ✖ d

Question Number : 52 Question Id : 7702 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

In final stage of ecological succession dynamic balance between species and physical environment takes place, which is called

a. progressive ecosystem

b. ideal ecosystem

c. stable ecosystem

d. climax ecosystem

Options :

1. ✖ a

2. ✖ b

3. ✖ c

4. ✔ d

Question Number : 53 Question Id : 7703 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The major portion of the alkalinity in natural waters is caused by

a. hydroxide , carbonate and bicarbonate

b. hydroxide, phosphate and bicarbonate

c. silicate , ammonia and bicarbonate

d. hydroxide , ammonia and carbonate

Options :

1. ✔ a

2. ✖ b

3. ✖ c

4. ✖ d

Question Number : 54 Question Id : 7704 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

When a particle is suspended in water, two forces are acting on it, which are

a. gravity and drag force

b. gravity and buoyant force

c. buoyant and drag force

d. viscous and buoyant force

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 55 Question Id : 7705 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Chlorofluorocarbons are

a. bad absorber of infrared radiations

b. good reflector of ultraviolet radiations

c. good absorber of ultraviolet radiations

d. good absorber of infrared radiations

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 56 Question Id : 7706 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

If the statistical distribution of noise levels in terms of L1, L10, L50, L90 are given, the equivalent noise levels, Leq can be estimated as

a. $L_{eq} = L_{90} + (L_{10} - L_{60})^2/60$

b. $L_{eq} = L_{50} + (L_{10} - L_{90})^2/60$

c. $L_{eq} = L_{10} + (L_{10} - L_{90})^2/60$

d. $L_{eq} = L_{60} + (L_{10} - L_{90})^2/60$

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 57 Question Id : 7707 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The glasses of artificial green houses are

a. transparent to incoming solar radiation but opaque to outgoing infrared radiation

b. opaque to incoming infrared radiation but transparent to outgoing infrared radiation

c. opaque to incoming solar radiation as well as outgoing infrared radiation

d. opaque to incoming solar radiation but transparent to outgoing infrared radiation

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 58 Question Id : 7708 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Accumulator is an integral component of

a. CPU

b. Hard Disk

c. RAM

d. Cache memory

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 59 Question Id : 7709 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Number of bits needed to code 512 operations is

a. 4

b. 7

c. 8

d. 9

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 60 Question Id : 7710 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Booting the computer system is a process which

a. Brings operating system from hard disk to main memory

b. Brings operating system from main memory to hard disk

c. Brings all users data from hard disk to main memory

d. Brings all users data from main memory to hard disk

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 61 Question Id : 7711 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

A variant of _____ is called flash memory.

a. Virtual memory

b. Cache memory

c. EEPROM

d. RAM

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 62 Question Id : 7712 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The default alignment of numeric values in MS-Excel is

a. Left

b. Right

c. Centre

d. Justify

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 63 Question Id : 7713 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

PROLOG is a

a. Procedural language

b. Logic programming language

c. Imperative language

d. Functional language

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 64 Question Id : 7714 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

In a binary number, the rightmost bit is called

a. Most significant bit

b. Least significant bit

c. Carry bit

d. Extra bit

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 65 Question Id : 7715 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

In Boolean Algebra, A' (A + B') is equivalent to

a. A'B

b. AB'

c. AB

d. A'B'

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 66 Question Id : 7716 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Usenet service enables a group of internet users

a. For remote login

b. For file transfer

c. To exchange views/information on some common topic of interest

d. To boot remote computer

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 67 Question Id : 7717 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which of the following is not a Web browser?

a. XHTML

b. FireFox

c. MacWeb

d. NetScape

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 68 Question Id : 7718 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The plane of a circle makes an angle of 45° with HP and VP each. Its plane will be inclined to the "profile plane" (PP) at:

a. 90°,
b. 30°,
c. 60°,
d. its plane will be parallel to PP.

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 69 Question Id : 7719 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

A rack is a gear in which:

a. teeth are cut on a flat surface,
b. teeth are cut on the periphery of a conical surface,
c. Teeth are cut on the outside surface of a disc,
d. teeth are cut on the inside of an annular surface.

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 70 Question Id : 7720 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which of the following scales can be used interchangeably?

a. comparative scales and diagonal scales,
b. Diagonal scales and plain scales,
c. vernier scale and comparative scale,
d. diagonal scale and vernier scale.

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 71 Question Id : 7721 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

. An ant sitting on the "second's hand" of a clock moves at a constant speed away from the centre. The path traced by the ant is:

a. Spiral,
b. Involute,
c. Epicycloid,
d. Hypocycloid.

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 72 Question Id : 7722 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

. A square shaped plane is represented in orthographic view as Plan, Elevation and Side View. The isometric projections of all three views would appear to be:

a. All three views will be identical,
b. Isometric of Side view and Elevation will be identical but that of plan will be different,
c. All three views will be different,
d. Isometric of Plan and Elevation will be identical but that of side view will be different.

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 73 Question Id : 7723 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

When a body is moving along a circular path with constant speed

a. Work done on it is zero.
b. Force acting on it is zero.
c. Its velocity remains constant
d. Its acceleration is zero

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 74 Question Id : 7724 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

. According to Bohr's theory of hydrogen atom, the spectral lines corresponding to transitions from higher energy levels to energy level n =2 belong to

a. P fund series
b. Lyman series
c. Panchen Series
d. Balmer series

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 75 Question Id : 7725 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

. The working of an optical fibre is bases on

a. Dispersion of light

b. Total internal reflection

c. Polarisation of light

d. Diffraction of light

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 76 Question Id : 7726 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

. Fleming's Right Hand Rule is used for the determination of direction of

a. Force acting on a current carrying conductor kept in a magnetic field

b. Motion of a current carrying conductor kept in on electric field.

c. Current induced in a conductor Due to its motion in a magnetic field

d. Deflection of a charged particle moving in a magnetic field

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 77 Question Id : 7727 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which one of the following statements is correct?

a. Resistance of semiconductor material increases will rise in temperature

b. Internal resistance of a cell depends on the distance between its electrodes.

c. An alloy of tin and lead is used to make the element of an electric heater

d. Drift Velocity of electrons in a metal does not depend upon mass of the electron.

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 78 Question Id : 7728 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

A and B are two points at same distance from the centre of a short electric dipole on axial line and equatorial line respectively. E_1 and E_2 are respectively the resultant electric fields due to the dipole at these points. Identify the only correct condition between E_1 and E_2 from the following for this situation

a. $E_1 = 4 E_2$
b. $E_2 = 4 E_1$
c. $E_1 = E_2$
d. $E_1 = 2E_2$

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 79 Question Id : 7729 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

. You are provided a few homonuclear, diatomic molecules (as =given below).Identify the one which is paramagnetic in nature .

a. H_2
b. C_2
c. B_2
d. N_2

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 80 Question Id : 7730 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

. Halogens have tendency to accept electrons and therefore work as oxidizing agent. The correct increasing order of oxidizing power of the halogens is

a. $F_2 < Cl_2 < Br_2 < I_2$
b. $Br_2 < I_2 < F_2 < Cl_2$
c. $I_2 < F_2 < Cl_2 < Br_2$
d. $I_2 < Br_2 < Cl_2 < F_2$

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 81 Question Id : 7731 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which one of the following reaction is not an example of redox reaction?

a. $3Mg + N_2 \rightarrow Mg_3N_2$

b. $CuSO_4 + Pb \rightarrow PbSo_4 + Cu$

c. $I_2 + 3Cl_2 \rightarrow 2ICl_3$

d. $CuSo_4 + 4NH_3 \rightarrow [Cu(NH_3)_4]So_4$

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 82 Question Id : 7732 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

. Following solution are prepared by mixing different volumes of NaOH and HCl of diffident concentrations ,pH of which one of them will be equal to 1?

a. 100mL $\frac{M}{10}$ HCL +100 mL $\frac{M}{10}$ NaOH

b. 75mL $\frac{M}{5}$ HCL +25 mL $\frac{M}{5}$ NaOH

c. 55mL $\frac{M}{10}$ HCL +45 mL $\frac{M}{10}$ NaOH

d. 60mL $\frac{M}{10}$ HCL +40 mL $\frac{M}{10}$ NaOH

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 83 Question Id : 7733 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

. For obtaining a metal from its ore various metallurgical processes are adopted, Froth flotation process is metallurgy of

a. Oxide ores

b. Chloride ores

c. sulphide ores

d. Carbonate ores

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 84 Question Id : 7734 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which one of the following is most viscous?

a. CH_3OH

b. $\begin{array}{l} CH_2OH \\ | \\ CHOH \\ | \\ CH_2OH \end{array}$

c. $\begin{array}{l} CH_2OH \\ | \\ CH_2OH \end{array}$

d. CH_3CH_2OH

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 85 Question Id : 7735 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

In human body, the fluids involved in exchange of substances between cells and their immediate environment are

a) Blood only
b) Lymph or extracellular fluid only
c) Lymph and blood
d) Water circulating in the body

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 86 Question Id : 7736 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

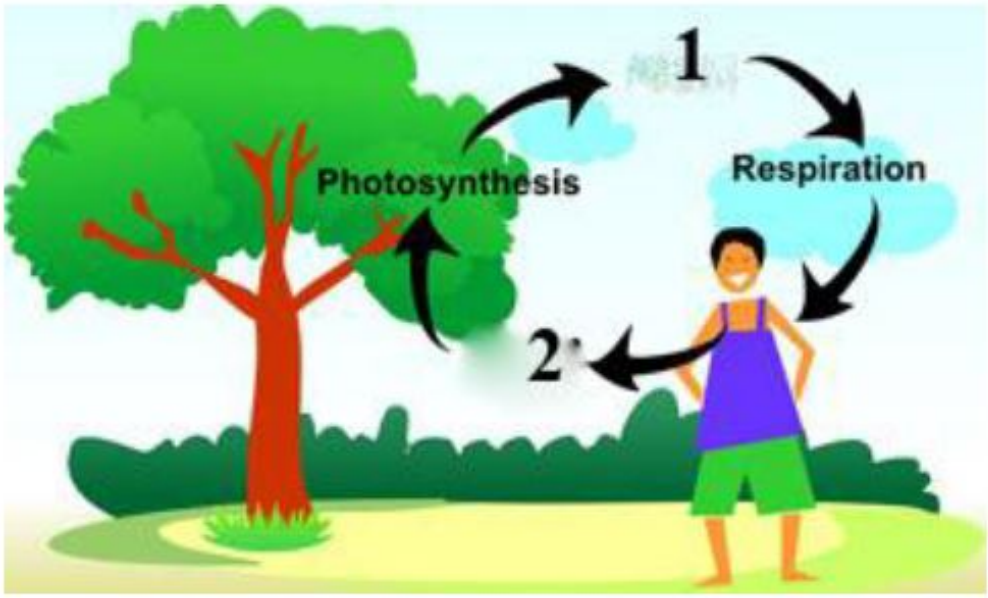
The scientific name of an organism consists of

a) One word written in italics
b) Two words written in italics
c) One word written in boldly
d) One word underlined

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 87 Question Id : 7737 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33



In the above diagram, names of two gases that should have been written instead of 1 and 2 are

a. 1 : Carbon-di-oxide; 2 : Oxygen
b. 1 : Oxygen; 2 : Carbon-di-oxide
c. 1 : Hydrogen; 2 : Nitrogen
d. 1 : Nitrogen; 2 : Hydrogen

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 88 Question Id : 7738 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

When a person is bitten by a mosquito infected by *Plasmodium* he / she is likely to get

a. Typhoid
b. Malaria
c. Tuberculosis
d. Diarrhoea

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 89 Question Id : 7739 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The organ which receives blood from veins and sends out blood through arteries to organs of body is

a. Heart
b. Liver
c. Stomach
d. Kidney

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 90 Question Id : 7740 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The scientific name of human *Homo sapiens* means

a. Erect walker
b. Wise talker
c. Wise hominid
d. Brainy bipedal

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 91 Question Id : 7741 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Let x be the greatest number by which if 166,199 and 298 are divided, then the remainder in each case is the same. The sum of digits of x is

a. 2
b. 4
c. 7
d. 11

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 92 Question Id : 7742 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

If $m = 2^5 \times 3^{10} \times 5^5 \times 7^3$, $n = 2^4 \times 3^{11} \times 7^2 \times 5^6$
$P = 2^6 \times 3^9 \times 5^4 \times 7^4$ and $q = 2^4 \times 3^{11} \times 5^4 \times 7^{11}$

Then LCM of m,n,p and q is

a. $3 \times (10)^6 \times (21)^{10}$
b. $2 \times (10)^6 \times (21)^{11}$
c. $(10)^5 \times (21)^{11}$
d. $(10)^6 (21)^{11}$

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 93 Question Id : 7743 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The ratio of the number of girls and boys who appeared in an examination was 16 :9, and the ratio of the number of girls and boys passing the examination was 4:3 . If 75% of boys passed the examination , then the percentage of girls who passed the examination was

a. 25
b. $51\frac{1}{4}$
c. $56\frac{1}{4}$
d. 64

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 94 Question Id : 7744 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

If a:b =4:3, 3b=5c and 4c =9d , then a:d is

a. 1:5
b. 5:1
c. 9:1
d. 9:4

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 95 Question Id : 7745 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The monthly incomes of A , B and C taken together is Rs. 79800. A spends 80% of his income, B spends 87.5% of his income and C spends 90% of his income. If the ratio of savings of A , B and C is 16:17:12, then the income of B exceeds the income of A by :

a. Rs. 9500
b. Rs.3800
c. Rs.7600
d. Rs.13300

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 96 Question Id : 7746 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

From a vessel containing 64 litres of alcohol, 8 litres are drawn out and the vessel is filled up with equal quantity of water. This process is repeated two more times. How much alcohol (in litres) is now contained in the vessel ?

a. 40
b. $40\frac{5}{8}$
c. $42\frac{7}{8}$
d. 44

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 97 Question Id : 7747 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

In brand A, the ratio of two types oils x and y is 4:3 whereas in brand B, the ratio of x and y is 2:3. How much of A in litres should the mixed with 10 litres of B to get a mixture of two oils x and y as 8:7?

a. 21
b. 28
c. 35
d. 42

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 98 Question Id : 7748 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Hari borrowed a sum of money and returned it in three equal quarterly installments of Rs.92610 each . If the rate of interest charged was 20% per annum, compounded quarterly , then the sum (in Rs.) borrowed was

a. 277830
b. 252200
c. 253200
d. 254200

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 99 Question Id : 7749 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

A sum of money doubles in 5 years at a certain rate per annum of simple interest and at a different rate triples in 12 years. Of the two rates, the higher rate of interest per annum is

a. $16\frac{2}{3}\%$
b. 20%
c. $18\frac{3}{4}\%$
d. 25%

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 100 Question Id : 7750 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

. A person gains 20% by selling an article for a certain price. If he sells it at double the price, then the profit made will be

a. 40%
b. 100%
c. 120%
d. 140%

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 101 Question Id : 7751 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

. A dealer allows a discount of 16% on the marked price of a table which cost him Rs.1200. If he still gains 5% , the marked price of the table (in Rs.) is

a. 1360
b. 1400
c. 1500
d. 1560

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 102 Question Id : 7752 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

. An aeroplane left 30 minutes later than scheduled time, and in order to reach the destination of 1500 km, it had to increase to speed 250 km/hours from its usual speed. with its usual speed it will cover a distance of 3000 km in

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

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 103 Question Id : 7753 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

. A man can row 6 km/hour in still water. When the river is running at 2 km/hours, it takes him 3 hours to row a place and back to the starting point. How far (in km) is the place?

a. 6
b. 8
c. 10
d. 12

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 104 Question Id : 7754 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

. A is twice as fast as B and B is twice as fast as C. If all of them working together can finish a work in 8 days, then in how money days will B do it alone?

a. 56
b. 42
c. 28
d. 14

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 105 Question Id : 7755 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

.A and B together can do a piece of work in 24 days; B and C together can do it in 20 days and C and A together can do it in 30 days. They all work together for 12 days, where A and B leave. How many days more will C take to finish the work ?

a. 10
b. 12
c. 20
d. 24

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 106 Question Id : 7756 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

.The average of 30 positive integers is x. if the first number is increased by 2, second by 4, third by 6, fourth by 8, and so on , then the average of the resulting numbers is y. The value of y-x is

a. 27
b. 29
c. 31
d. 33

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 107 Question Id : 7757 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

'.The average of marks obtained by 150 students was 40. If the average marks of passed students were 50 and that of failed students was 20. Then the number of students who passed the examination was

a. 80
b. 90
c. 100
d. 120

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 108 Question Id : 7758 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

.If sum of the roots of the equation

$3x^2+(2k+1)x-k-5 =0$

Is equal to the product of the roots, then the sum of the reciprocal of roots is

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

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 109 Question Id : 7759 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The value of m (m>0) such that the equation

$X^2+mx+64=0$ and $x^2-8x+m=0$ have real roots is

a. 4
b. 6
c. 8
d. 16

Options :

1. ✖ a
2. ✖ b
3. ✖ c

4. ✔ d

Question Number : 110 Question Id : 7760 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

.Which one of the following is not a factor of
$64x^4+160x^3-44x^2-360x-225$?

a. $2x+3$
b. $2x-3$
c. $4x+5$
d. $4x-5$

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 111 Question Id : 7761 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

.Factorization of $(x+2)(x-5)(x-6)(x+1)-144$ is

a. $(x+3)(x+2)(x-2)(x-7)$
b. $(x+3)(x+2)^2(x-7)$
c. $(x+3)(x-2)^2(x-7)$
d. $(x-3)(x-2)^2(x+7)$

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 112 Question Id : 7762 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

.If the ratio of the sum of n terms of two arithmetic progressions is $(3n+8):(7n+15)$, then the ratio of their 10th terms is

a. 65:148
b. 55:148
c. 65:138
d. 55:138

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 113 Question Id : 7763 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

.If x =1+a+a^2+.....

and y=1+b+b^2+.....
Be infinite geometric series with |a|<| and |b|<| respectively. The sum of the infinite geometric series
1+ab+a^2b^2+.... is

a. $\frac{x+y-1}{xy}$
b. $\frac{xy}{x+y-1}$
c. $\frac{x+y+1}{xy}$
d. $\frac{xy}{x+y+1}$

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 114 Question Id : 7764 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

. The value of $\frac{2sin^2 63^0+1+2sin^2 27^0}{3cos^2 17^0-2+3cos^2 73^0}$ is

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

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 115 Question Id : 7765 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

. An aeroplane flying horizontally 2 km above the ground is observed at an angle of 60^0 at a point on the ground. If , after 10 seconds , the elevation is observed to be 30^0 ,the uniform speed (in km/hour) of the aeroplane is

a. $240\sqrt{3}$
b. $360\sqrt{3}$
c. $480\sqrt{3}$
d. $600\sqrt{3}$

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 116 Question Id : 7766 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

What is the main common tenets of Jainism and Buddhism ?

a. Right knowledge is necessary.
b. Ahimsa will lead to no rebirth
c. Teacher is supreme master
d. Suffering can be ended by conquering desire.

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 117 Question Id : 7767 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Who was the first Moghul ruler to support the translation of Sanskrit works into Persian?

a. Jehangir
b. Akbar
c. Babur
d. Humayun

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 118 Question Id : 7768 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Why is the Battle of Salbai 1782 significant in the establishment of British power in India?

a. The Marathas made a 20 year peace with the British and helped suppress Mysore.
b. The British were able to establish the Presidencies in Bombay, Calcutta and Madras
c. The Marathas were able to expand their territories and conquer Mysore
d. The British were able to trade with the interior of India and conquer Oudh.

Options :

1. ✔ a
2. ✖ b
3. ✖ c

4. ✖ d

Question Number : 119 Question Id : 7769 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

In which zone will the sun never be overhead but present all the year?

a. Arctic Zone
b. Tropical zone
c. Temperate zone
d. Antarctic zone

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 120 Question Id : 7770 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which of these States has shown a higher increase of urban population compared to the National level?

a. West Bengal

b. Uttarpradesh

c. Tamilnadu

d. Maharashtra

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 121 Question Id : 7771 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which two cities of Madhya Pradesh have been included in the Delhi Mumbai Industrial Corridor?

a. Ujjain and Gwalior

b. Bina and Indore

c. Neemuch and Shajapur

d. Rewa and Bina

Options :

1. ✖ a
2. ✖ b

3. ✔ c
4. ✖ d

Question Number : 122 Question Id : 7772 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

What is the reason why compulsory voting cannot be insisted in a democracy?

a. The right of free speech

b. The right to dissent

c. Equality of all citizens

d. Right to work where one wants.

Options :
1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 123 Question Id : 7773 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Who is allowed to introduce a Money bill in Parliament in India?

a. Member

b. Minister

c. Speaker

d. Oppositon Leader

Options :
1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 124 Question Id : 7774 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The development of which industries does the Make in India effort which will increase GDP from the current 15 % to 25 % focuses on ?

a. Electronics, Automobile and shipbuilding

b. Consumer appliances, sports goods and robots

c. Engineering goods, electrical goods and chemicals

d. Paper, Textiles, and Sugar.

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 125 Question Id : 7775 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

In which sector are most farm workers leaving overcrowded farms moving into?

a. Large manufacturing

b. Government employment

c. Small scale industries

d. Informal sector

Options :
1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 126 Question Id : 7776 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

. What is the main focus of the 'Prakash Path' policy?

a. Use of LED and reduction in energy need in homes

b. Switch to renewable energy sources in rural areas

c. Diversion of energy needs from industry to agriculture

d. Increased use of natural gas for electricity production .

Options :
1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 127 Question Id : 7777 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which form of heating in our home is similar to that of the Sun ?

a. Sound wave

b. Light wave

c. Microwave

d. Radio wave

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 128 Question Id : 7778 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Why are metals good conductors of heat?

a. Electrons are free

b. Atoms are tightly packed

c. Melting point is high

d. Particles are separate

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 129 Question Id : 7779 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which one of the following has ' reflection as its constructional basics?

a. Periscope

b. Telescope

c.Microscope

d. Binocular Microscope

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 130 Question Id : 7780 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

. Which gas is used for artificial ripening of green fruit?

a. Calcium Carbide

b. Carbon Dioxide

c. Ethylene

d. Acetylene

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 131 Question Id : 7781 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which of the following gases is used for removing impurities in water?

a. Hydrogen

b. Oxygen

c. Chlorine

d. Carbon Dioxide

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 132 Question Id : 7782 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

. Which is the most abundant rare gas in the atmosphere?

a. Helium

b. Argon

c. Neon

d. Xeon

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 133 Question Id : 7783 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

What is a biome?

a. Animals , plants and fish found in a pond, or tree

b. A large community of naturally occurring trees and animals in an area

c. Natural processes which help to keep the environment clean.

d. The processes which relate the food producers and consumers

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 134 Question Id : 7784 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

. Which of the following food intake is the predominant supplier of sodium to our body?

a. Vegetables

b. Sugar

c. Pulses

d. Salt

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 135 Question Id : 7785 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Ancestors of which species are the Ramapithecus and Cro-Magnon ?

a. Neanderthal

b. Monkey

c. Orangutan

d. Modern man

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 136 Question Id : 7786 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

How many players are there in a Kabaddi game

a. Five

b. Ten

c. Twelve

d. Seven

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 137 Question Id : 7787 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

. What is the bowling action which a leg spin bowler throws which spins from left to right?

a. Googly

b. Doosra

c. Off spin

d. Seam

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 138 Question Id : 7788 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

What is the significant outcome of the Iran Nuclear Deal?

a. China will help Iran develop nuclear power

b .Iran will not acquire or produce Nuclear weapons.

c. New equipment will be shared for nuclear production

d. Iran will be able to monitor U.S.nuclear development

Options :

1. ✖ a
2. ✔ b
3. ✖ c

4. ✖ d

Question Number : 139 Question Id : 7789 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

. Which is considered the longest road tunnel in India?

a. Maliguda tunnel Odisha

b. Pune – Mumbai tunnel

c. Patnitop Jawahar tunnel Kashmir.

d. Punarjani Guha in Kerala

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 140 Question Id : 7790 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

. Which is the State symbol of Maharashtra

a. Elephant

b. Pangolin

c. Blue Mormon Butterfly

d. Peacock

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 141 Question Id : 7791 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

'I defeated the only brother of the daughter of my paternal grandmother at chess,' said Albert. Whom did Albert defeat?

a. Son
b. Brother
c. Uncle
d. Father

Options :

1. ✖ a
2. ✖ b
3. ✖ c

4. ✔ d

Question Number : 142 Question Id : 7792 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

8 is to 51.2 as 7 is to ...

a. 34.3
b. 25.6
c. 72.9
d. 62.5

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 143 Question Id : 7793 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Question : Interrogation mark = ... : exclamation mark

a. Sentence
b. Explanation
c. Surprise
d. Sorrow

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 144 Question Id : 7794 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Travelling salesman Don needs to reach his headquarters urgently. He drives 10 km short of the midpoint at 60 kmph. Because of the traffic jam, he had to slow down for covering the remaining distance. He drove at 40 kmph and reached the destination in 100 minutes. How long was the drive?

a. 74 kms
b. 76 kms
c. 100 kms
d. 75 kms

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 145 Question Id : 7795 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Find the odd one out: 1,331 125 1 216 8 81 729 1,728

a. 81
b. 125
c. 1331
d. 64

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 146 Question Id : 7796 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Four of the following five groups of letters are similar in a certain way: QRS, LMN, XWV, HIJ, UVW. Which is the odd one?

a. LMN
b. QRS
c. XWV
d. UVW

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 147 Question Id : 7797 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

In a certain code, 538 means 'sugar and spice' and 347 means 'tea with sugar'. If 489 means 'tea and cake', what is the code for 'sugar and cake'?

a. 943
b. 853
c. 589
d. 839

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 148 Question Id : 7798 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If COPPER is coded as SFQQPD, how will IRON be coded as?

a. JSPO144
b. OPSJ
c. POSJ
d. OPJS

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 149 Question Id : 7799 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Stephen, a fresher in the college, is looking for the Main Library. He asks a senior who tells him: You are now facing the North. Turn left, walk to the Chemistry Block and turn right. Walk till you see the Fine Arts Block and take a left turn and you will reach the Main Library. In which direction is the last lap?

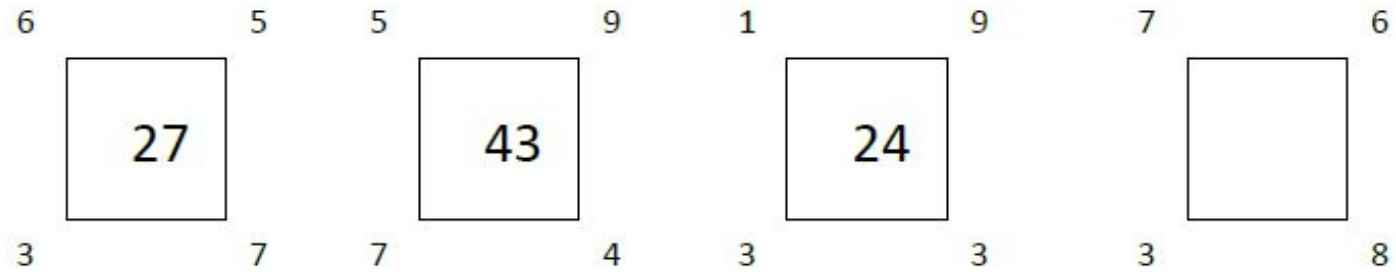
a. East to West
b. West to East
c. North to South
d. South to North

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 150 Question Id : 7800 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

What number should come in the fourth square?



a. 37
b. 39
c. 48
d. 38

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d