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:	Chemical and Metallurgical Assistant 30th Aug Shift 2 Final
Subject Name:	Chemical and Metallurgical Assistant
Creation Date:	2015-08-29 02:23:42.0
Cut Off:	0
Duration:	120
Number of Questions:	150
Total Marks:	150.0

Chemical and Metallurgical Assistant

Group Number :	1
Group Id :	33
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

CMA

Section Id :	33
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:	33
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 5708 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

When coal is destructively distilled, the resultant mass becomes soft, plastic and fuses to give a coherent mass. It is known as

a. Cake
b. Coke
c. Lubricants
d. Grease

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 2 Question Id : 5711 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Water gas is prepared by passing steam over red hot?

a. Fe
b. Cu
c. Al
d. C

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 3 Question Id : 5714 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

During wet corrosion

a. Anodic part undergoes reduction
b. Anodic part undergoes oxidation
c. Cathodic part undergoes reduction
d. Anodic part as well as cathodic parts undergo oxidation

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 4 Question Id : 5716 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Composition of stainless steel is

a. Fe(5-39%) + Cr (11-25%) + Ni (50-70%)
b. Fe(70%) + Cr (20%) + Ni (10%)
c. Fe(24-26%) + Cr (14-16%) + Co (60%)
d. Fe(53.5%) + Co (12.5%) + Ni (18%)+ Al (10%)+ Cu (6%)

Options :

3. ✖ c

Question Number : 5 Question Id : 5717 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Tungsten steel is used for making

a. Hydraulic machinery
b. Springs
c. High speed tools
d. Gears

Options :

2. ✖ b
3. ✔ c

Question Number : 6 Question Id : 5731 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which one of the following is formed from ring opening polymerization?

a. Nylon-6
b. Nylon-6,6
c. Nylon-6,10
d. Dacron

Options :

1. ✔ a
2. ✖ b
3. ✖ c

Question Number : 7 Question Id : 5732 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Polymer used in bullet proof glass is

a. PMMA
b. Lexan
c. Nomex
d. Kevlar

Options :

3. ✖ c

Question Number : 8 Question Id : 5733 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

A hybrid propellant uses as

a. A solid fuel and liquid oxidizer
b. A composite solid propellant
c. A biliquid propellant
d. A monoliquid propellant

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 9 Question Id : 5737 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Plaster of Paris is

a. $CaSO_4.2H_2O$
b. $CaCO_3.H_2O$
c. $CaSO_4.½H_2O$
d. $CaSO_4$

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 10 Question Id : 5740 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Permanent hardness in water may be due to

a. Sodium chloride
b. Magnesium sulphate
c. Calcium bicarbonate
d. Magnesium bicarbonate

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 11 Question Id : 5743 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Melamine (2,4,6- triamino- 1,3,5-triazine) is an industrial chemical used mainly in the production of

a. Plastics
b. Papers
c. Glasses
d. Grease

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 12 Question Id : 5751 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

For same maximum pressure, maximum temperature and heat rejection, the efficiency of Otto, Diesel, and Dual cycle may be compared as

a. ηotto > η dual > ηdiesel

b. ηotto = η dual > ηdiesel

c. ηdiesel > η dual > ηotto

d. ηdual > η diesel > ηotto

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 13 Question Id : 5754 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The mineral acidity is caused by

a. hydrolysis of trivalent metal ions
b. dissolved salts
c. dissolution of minerals
d. adding mineral acids

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 14 Question Id : 5763 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

LISP 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 : 15 Question Id : 5766 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

In File Transfer Protocol (FTP) service, downloading is the process of

a. Moving a file from a remote computer to one's own computer
b. Moving a file from one's own computer to a remote computer
c. Moving a file from a remote computer to the World Wide Web
d. Moving a file from the World Wide Web to a remote computer

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 16 Question Id : 5768 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Minute cracks in metals and minute faults in welded joints can be detected using

a. IR rays
b. UV rays
c. alpha rays
d. X-ray/γ-rays

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 17 Question Id : 5776 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Fleming's left hand Rule is used for determination of direction of

a. Induced current produced in a conductor moving in a magnetic field.
b. Force acting on a current carrying conductor kept in a magnetic field
c. Induced e.m.f produced in a coil due to charge in electric field lines associated with it.
d. Eddy currents produced in a metallic block due to charge in magnetic field associated with it.

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 18 Question Id : 5777 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The sensitivity of a potentiometer can be increased by

a. Decreasing the length of the wire.
b. Increasing the current in the main circuit
c. Decreasing the current in the main circuit
d. Decreasing the thickness of potentiometer wire.

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 19 Question Id : 5779 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The concept of hybridization helped in explaining the structure/shape of molecule, which of the following molecule has sp^3d hybridization ?

a. SF_6
b. PF_5
c. NH_3
d. C_2H_4

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 20 Question Id : 5783 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Examine the following statements related to metallic crystal and identify the incorrect one.

a. Most of the metals crystallize in ccp(cubic close packed), hcp(hexagonal close packed) or bcc (body centred cubic) structures .
b. Efficiency of packing of atoms is equal in hcp and ccp structures and is equal to 74%
c. Efficiency of packing in bcc structure is lower than ccp and hcp structures and is only 68%.
d. The number of nearest neighbors called coordination number of each atom in ccp structure of the metal is 8.

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 21 Question Id : 5787 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which is an odd group with regard to the medium from which they take oxygen for breathing?

a. Humans and land plants
b. Fish and aquatic plants
c. Fish and whales
d. Human and whales

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 22 Question Id : 5789 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

National animal of India is

a. Lion
b. Tiger
c. Monkey
d. Deer

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 23 Question Id : 5792 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If $a = 3^4x5^5x\ 7^6$, $b = 3^5x\ 5^6x\ 7^7$, $c = 3^6x\ 5^5x\ 7^4$ and $d = 3^3x\ 5^4x\ 7^5$ then HCF of a, b, c and d is

a. $27x35^4$

b. $27x35^5$

c. $3^4x\,35^5$

d. $7^4x\,15^7$

Options :

1. ✔ a
2. ✖ b
3. ✖ c

Question Number : 24 Question Id : 5793 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The tax on a commodity is reduced by 10% and there by consumption increases by 8%. The increase or decrease in the revenue from it is

a. $2\frac{4}{5}\%$ decrease

b. $2\frac{4}{5}\%$ increase

c. $6\frac{4}{5}\%$ decrease

d. $6\frac{4}{5}\%$ increase

Options :

1. ✔ a
2. ✖ b
3. ✖ c

Question Number : 25 Question Id : 5799 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

A sum of Rs 16000 invested at 10% per annum compounded semi annually amounts to Rs 18522. The time period of investment is

a. $1\frac{1}{2}$years

b. $2\ years$

c. $2\frac{1}{2}$ years

d. $3\ years$

Options :

1. ✔ a
2. ✖ b
3. ✖ c

Question Number : 26 Question Id : 5800 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

A shopkeeper sells an article at a loss of 12.5%. Had he sold it for Rs 51.80 more, he would have earned a profit of 6%. The cost price (in Rs) of the article is

a. Rs 240
b. Rs 280
c. Rs 259
d. Rs 300

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 27 Question Id : 5809 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The first term of an infinite geometric series exceeds the second term by 2 and the sum of the series is 50, then the third term of the series is

a. 8
b. $6\frac{2}{5}$
c. $5\frac{3}{25}$
d. $-14\frac{2}{5}$

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 28 Question Id : 5817 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

He demolished the austere sandstone structures of Akbar in the Red Fort and replaced them with marble buildings such as the *Diwan-I-Am* (hall of public audience) , the *Diwan-i-Khas* (hall of private audience), and the *Moti Masjid* (Pearl Mosque)

a. Aurangzeb
b. Akbar
c. Jehangir
d. Shahjehan

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 29 Question Id : 5821 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

What method has been identified to resolve movement of coal for power production, movement of goods for infrastructure , and trade needs in India?

a. Making new factories closer to the mines.
b. Building of new ports in Private sector
c. Investing in new Freight trains for goods
d. Dedicated Freight corridor for railways

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 30 Question Id : 5826 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

What is the per capita energy consumption level in India today?

a. 500 kWh
b. 2942 kWh
c. 1000 kWh
d. 818 kWh

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 31 Question Id : 5832 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

Which is the most malleable metal?

a. Iron
b. Gold
c. Copper
d. Silver

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 32 Question Id : 5833 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

What is pollination ?

a. Creating of a new species
b. Formation of seeds in the ovule
c. Transfer of pollen from anther to stigma
d. Insects moving pollen from one flower

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 33 Question Id : 5840 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

Which one is the world's largest employer ?

a. Mac Donald's
b. Indian Railways
c. Chinese Army
d. British railways

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 34 Question Id : 5841 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

P is the sister of the son of Q's son. How is P related to Q?

a. Grandfather
b. Grandson
c. Grandmother
d. Granddaughter

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 35 Question Id : 5844 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

Two brothers divide the 140 marbles that they have between them such that the younger has 150% of the elder. How many does the younger have more than the elder?

a. 20
b. 28
c. 24
d. 14

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 36 Question Id : 5701 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The calorific value of lignite is

a. 545 - 1500 k cal / Kg
b. 6500 - 7100 k cal / Kg
c. 2020 - 3000 k cal / Kg
d. 8650k cal / Kg

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 37 Question Id : 5702 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Kerosene does not dissolve in water, because

a. Kerosene is mixture of hydrocarbons
b. Kerosene is a liquid
c. Water has a high dielectric constant
d. Kerosene has low density than water

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 38 Question Id : 5703 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Liquefied petroleum gas contains --------as a major constituent of

a. Methane
b. Acetylene
c. Butane
d. Octane

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 39 Question Id : 5704 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

Purest form of coal is

a. Lignite
b. Anthracite
c. Bituminous
d. Peat

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 40 Question Id : 5705 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

Petroleum ether contains alkanes in the range

a. $C_{10} - C_{16}$
b. $C_5 - C_7$
c. $C_{15} - C_{18}$
d. $C_1 - C_4$

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 41 Question Id : 5706 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

Water gas is essentially

a. A mixture of CO and H_2O
b. A mixture of CO and H_2
c. A mixture of CO_2 and H_2O
d. A mixture of CO_2 and H_2

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 42 Question Id : 5707 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

A process of transformation of vegetable matter into anthracite is called

a. Cracking
b. Metamorphism
c. Metabolism
d. Photosynthesis

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 43 Question Id : 5709 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

White spirit is nothing but

a. Petroleum ethers
b. Naphtha
c. Gasoline
d. Asphalt

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 44 Question Id : 5710 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Coal gas is the mixture of

a. CH_4 and CO_2
b. CH_4 and H_2
c. CO and H_2
d. CO and N_2

Options :

3. ✖ c
4. ✖ d

Question Number : 45 Question Id : 5712 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Atomic packing factor is

a. Distance between two adjacent atoms
b. Projected area fraction of atoms on a plane
c. Volume fraction of atoms in a cell
d. Net distance of two atoms

Options :

2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 46 Question Id : 5713 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Corrosion is due to

a. Oxidation
b. Reduction
c. Electrolysis
d. Erosion

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 47 Question Id : 5715 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The carbon percentage in mild steel is

a. 0.15 – 0.3
b. 0.3 – 0.8
c. 0.8 – 1.5
d. Greater than 1%

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 48 Question Id : 5718 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Bronze is an alloy of

a. Copper and Nickel
b. Copper and iron.
c. Copper and Tin.
d. Copper and Aluminium.

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 49 Question Id : 5719 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The common metal present in bronze, brass and German alloys is

a. Zn
b. Mg
c. Cu
d. Al

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 50 Question Id : 5720 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Gun metal is an alloy of

a. Cu and Sn
b. Cu, Zn and Ni
c. Cu, Zn and Sn
d. Cu and Al

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 51 Question Id : 5721 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Composition of glass is

a. Silica, lime and NaCl
b. Silica, lime and Na_2CO_3
c. Silica and NaCl
d. lime and Na_2CO_3

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 52 Question Id : 5722 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Optical glass containing High percentage of

a. MgO
b. Al_2O_3
c. B_2O_3
d. PbO

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 53 Question Id : 5723 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which crystalline form of carbon has a two-dimensional sheet like structure

a. Coal
b. Coke
c. Graphite
d. Diamond

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 54 Question Id : 5724 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The different layers in graphite are held together by

a. Ionic bonding
b. Covalent bonding
c. Van der Waal's forces
d. Metallic bonding

Options :

4. ✖ d

Question Number : 55 Question Id : 5725 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

. The inorganic content present in enamel is

a. 4%
b. 5%
c. 96%
d. 10%

Options :

4. ✖ d

Question Number : 56 Question Id : 5726 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

Neoprene rubber is used as

a. Plastic for dining tables
b. Plastic for car panels
c. Materials for electrical switches
d. Rubber in driving suits

Options :

3. ✖ c
4. ✔ d

Question Number : 57 Question Id : 5727 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

In vulcanization of rubber,

a. Sulfur reacts to form a new compound
b. Sulfur cross-links are introduced
c. Sulfur produce a thin protective layer on rubber
d. Sulfur makes the rubber as soft

Options :

2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 58 Question Id : 5728 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following is a copolymers

a. Buna-S
b. PAN
c. Glyptal
d. Dacron

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 59 Question Id : 5729 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Nylon is classified as a

a. Polyester
b. Polyamide
c. Polyether
d. Polyolefin

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 60 Question Id : 5730 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

. Which one of the following is used to make non-stick cookware?

a. PVC
b. Polytetrafluoroethylene
c. Polyester
d. Poly(ethylene terephthalate)

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 61 Question Id : 5734 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

A good explosive should possess

a. Slow decomposition rate
b. High energy of dissociation
c. Negative oxygen balance
d. Positive oxygen balance

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 62 Question Id : 5735 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

Smokeless powder is

a. High explosive
b. Low explosive
c. Initiating explosive
d. Primary explosive

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 63 Question Id : 5736 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

Major component of Portland cement is

a. Tricalcium silicates
b. Calcium oxide
c. Calcium sulphate
d. Magnesium oxide

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 64 Question Id : 5738 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

Lubricant used in machine working at low temperature should possess

a. High pour-point
b. Low flash-point
c. High cloud-point
d. Low pour-point

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 65 Question Id : 5739 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

Alum is used for

a. Filtration
b. Coagulation
c. Softening
d. Disinfection

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 66 Question Id : 5741 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

The composition of superphosphate of lime is

a. $Ca(H_2PO_4)_2 + Na_3PO_4$
b. $Ca(H_2PO_4)_2 .H_2O + CaSO_4.2H_2O$
c. $Ca_3(PO_4)_2 + CaSO_4.2H_2O$
d. $Ca_3(PO_4)_2.2H_2O$

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 67 Question Id : 5742 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

The reaction of phosphate rock with sulfuric acid gives

a. Calcium phosphate
b. Calcium sulfate
c. Copper sulphate
d. Copper phosphate

Options :

4. ✖ d

Question Number : 68 Question Id : 5744 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

CCl_4 does not have net dipole moment because of

a. Its planar structure
b. Its irregular tetrahedral structure
c. Similar size carbon and chlorine atoms
d. Similar electron affinity of carbon and chlorine

Options :

1. ✖ a
2. ✔ b

4. ✖ d

Question Number : 69 Question Id : 5745 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The energy of an isolated system is always

a. Zero
b. Constant
c. Increasing
d. Decreasing

Options :

1. ✖ a
2. ✔ b

4. ✖ d

Question Number : 70 Question Id : 5746 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

"A machine which would continuously supply mechanical work without some other form of energy disappearing" is called

a. Heat Engine
b. PMM-I
c. PMM-II
d. PMM-III

Options :

1. ✖ a
2. ✔ b

Question Number : 71 Question Id : 5747 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Low value of Nusselt number indicates

a. Large conduction heat flux in the fluid as compared to convection heat flux
b. Large convection heat flux in the fluid as compared to conduction heat flux
c. Conduction and convection heat flux is almost same
d. Nusselt number is not related to convection and conduction heat flux

Options :

1. ✔ a
2. ✖ b
3. ✖ c

Question Number : 72 Question Id : 5748 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The ratio of momentum diffusivity to thermal diffusivity is defined as

a. Rayleight number
b. Peclet number
c. Stanton number
d. Prandtl number

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 73 Question Id : 5749 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which of the processes of the ideal vapour compression refrigeration cycle is irreversible ?

a. Compression
b. Heat transfer in condenser
c. Throttling
d. Heat transfer in evaporator

Options :

1. ✖ a
2. ✖ b
3. ✔ c

Question Number : 74 Question Id : 5750 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

"A cyclic device that maintains the region at higher temperature than that of its surrounding" is called

a. Refrigerator
b. Heat pump
c. Evaporator
d. Condenser

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 75 Question Id : 5752 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The process of initial invasion followed by progression from one biotic community to the next is termed as

a. ecological succession
b. natural succession
c. secondary succession
d. primary succession

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 76 Question Id : 5753 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The common symptoms of water borne disease caused by protozoa is

a. shigellosis
b. leptospirosis
c. gastrointestinal disorder
d. infectious hepatitis

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 77 Question Id : 5755 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The continuous exposure of high concentration of carbon monoxide may cause

a. eye irritation
b. kidney damage
c. failure of respiratory system
d. death

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 78 Question Id : 5756 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The noise of aircraft is described in terms of Perceived Noise Levels (PNL), which is approximately

a. 13 units greater than the dB(A) value for the noise
b. 10 units greater than the dB(A) value for the noise
c. 3 units greater than the dB(A) value for the noise
d. 6 units greater than the dB(A) value for the noise

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 79 Question Id : 5757 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The environment friendly substitute of CFCs are

a. trichloro-propane and freon
b. dichloromethane and freon
c. difluoromethane and freon
d. chloro-fluoromethane and Freon

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 80 Question Id : 5758 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Instruction Register is an integral component of

a. CPU
b. I/O Controller
c. RAM
d. Data Bus

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 81 Question Id : 5759 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Number of bits needed to select one address out of 4K addresses in memory is

a. 8
b. 10
c. 12
d. 16

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 82 Question Id : 5760 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The versions of UNIX implemented by IBM on their workstations is called

a. ULTRIX
b. AIX
c. SOLARIS
d. HP-UX

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 83 Question Id : 5761 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which of the following is not a random access memory?

a. ROM
b. RAM
c. Flash memory
d. Magnetic Tape

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 84 Question Id : 5765 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

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

a. A
b. B
c. A'
d. B'

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 85 Question Id : 5767 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

Which of the following is not a Web browser?

a. Safari
b. Hadoop
c. MacWeb
d. Internet Explorer

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 86 Question Id : 5769 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

In portable instruments, damping is provided by

a. spring
b. gravity
c. eddy current
d. portable weight

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 87 Question Id : 5770 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

A permanent magnet moving coil measures

a. true rms value
b. dc value
c. peak value
d. rms plus dc value

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 88 Question Id : 5771 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

The difference between measured value and true value is called

a. gross error
b. relative error
c. probable error
d. absolute error

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 89 Question Id : 5773 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

. Kepler's second law of planetary motion is based on

a. Conservation of linear momentum
b. Conservation of angular momentum
c. Newton's second law of motion
d. Newton's first law of motion

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 90 Question Id : 5774 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

Which one of the following is NOT the Characteristics of Nuclear forces?

a. Charge independent
b. Strongest in nature
c. Short range forces
d. Obey inverse square law

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 91 Question Id : 5775 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

. The Phenomenon of polarisation of light proves

a. Rectilinear propagation of light
b. Longitudinal wave nature of light
c. transverse wave nature of light
d. corpuscular nature of light

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 92 Question Id : 5780 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

Size of a cat ion is less than the size of the corresponding atom and size of an anion is more than the size of the corresponding atom. For the following iso-electronic species, Na^+, Mg^{2+}, F^- and O^{2-}, the correct order of increasing length of their radii will be

a. $O^{2-} < F^- < Na^+ < Mg^{2+}$
b. $O^{2-} < F^- < Mg^{2+} < O^{2-}$
c. $Mg^{2+} < Na^+ < F^- < O^{2-}$
d. $F^- < O^{2-} < Mg^{2+} < Na^+$

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 93 Question Id : 5781 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Oxidation state of nitrogen in the species : NH_3,HN_3, N_2H_4, NO_2^- and NH_2OH are respectively

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

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 94 Question Id : 5784 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which one of the following cannot reduce Fehling's solution?

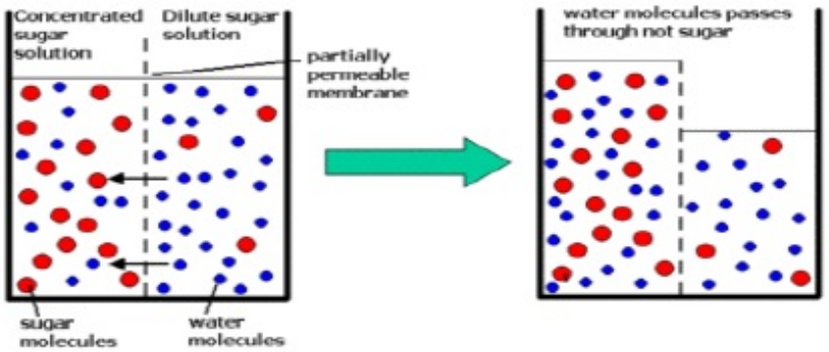
a. Formic acid
b. Formaldehyde
c. Acetic acid
d. Acetaldehyde

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 95 Question Id : 5785 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

What does the diagram drawn below depict?



a. Diffusion
b. Facilitated diffusion
c. Active transport
d. Osmosis

Options :

2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 96 Question Id : 5786 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The kidney tubules

a. only filter out the excretory products from blood
b. only let capillaries surrounding them selectively reabsorb substances
c. secrete a hormone for the removal of excess water from the body
d. filtration and selective reabsorption

Options :

2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 97 Question Id : 5788 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

.Identify the wrong reason.Plants are living because they

a. breathe
b. respond to stimuli
c. reproduce
d. get fixed on soil

Options :

4. ✔ d

Question Number : 98 Question Id : 5790 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

.A teacher took her students to a pond and explained that its components were its physical features and living beings living in it, so pond is

a. an ecosystem
b. a community
c. a biome
d. the biosphere

Options :

1. ✔ a

4. ✖ d

Question Number : 99 Question Id : 5791 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Let x be the greatest number that divides 463, 1028 and 1819 leaving the same remainder in each case. The sum of digits of x is

a. 3
b. 4
c. 5
d. 8

Options :

1. ✖ a

3. ✔ c
4. ✖ d

Question Number : 100 Question Id : 5794 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

If $B = \frac{2}{5}A$, C = 5/8B and D =2/13 of (B and C) then A:D is equal to

a. 8:5
b. 4:1
c. 5:2
d. 10:1

Options :

1. ✖ a

Question Number : 101 Question Id : 5795 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

A sum of Rs 5580 is divided among three persons L, M and N, so that if their shares are diminishing by Rs 40, Rs 60 and Rs 80 respectively, then, the ratio of their shares becomes 2:3:7. The share of M is

a. Rs 940
b. Rs1410
c. Rs 1430
d. Rs 3230

Options :

1. ✖ a

2. ✔ b

4. ✖ d

Question Number : 102 Question Id : 5796 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Two vessels have acid and water in the ratio 2:1 and 3:4, respectively. Both vessels are of the same size and are full of their respective mixtures. The contents of these vessels are emptied into another vessel. The ratio of acid to water in this vessel will be

a. 29:23
b. 23:19
c. 3:2
d. 1:1

Options :

1. ✖ a

2. ✔ b

4. ✖ d

Question Number : 103 Question Id : 5802 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The wheel of a vehicle, 17.6 decimeter in circumference, makes 68 revolutions in 6 seconds. The speed of the vehicle (in km/hour) is nearly

a. 68
b. 74
c. 56
d. 72

Options :

1. ✖ a

2. ✖ b

Question Number : 104 Question Id : 5803 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

A and B started on bicycles from a place in the same direction at the speeds of 4 km/hour and 9 km/hour. If A started at 9 a.m. and B at 11.30 a. m. on the same day, when did B over take A?

a. 13:30 a.m.
b. 1:00 p.m.
c. 1:30 p.m.
d. 2:00 p.m.

Options :

1. ✔ a
2. ✖ b
3. ✖ c

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

Question Number : 105 Question Id : 5804 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

If 9 men and 4 women can do a piece of work in 9 days, and 12 men and 6 women can do the same work in $6\frac{6}{11}$ days, how long will 6 men and 8 women take to do it?

a. 6 days
b. 8 days
c. 9 days
d. 12 days

Options :

1. ✖ a
2. ✖ b
3. ✔ c

Question Number : 106 Question Id : 5806 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The average of seven consecutive odd positive integers is 37. The average of the first and last of these integers is

a. 39
b. 38
c. 37
d. 36

Options :

1. ✖ a
2. ✖ b
3. ✔ c

Question Number : 107 Question Id : 5807 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Average age of the students of a class is 15.6 years. If the average of boys is 15.9 years and that of girls is 15.2 years, then the ratio of boys and girls is

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

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 108 Question Id : 5808 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

If the ratio of the sum of first n terms of two arithmetic progressions is (12-n) (3+n) then the ratio of their 4^{th} terms is

a. 1:2
b. 2:1
c. 7:5
d. 5:7

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 109 Question Id : 5810 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

One of the factors of $(x+1)(x+2)(x+3)(x+4)-3$ is

a. x^2+5x+3
b. x^2-5x+3
c. x^2+5x-7
d. x^2+5x+7

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 110 Question Id : 5811 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The expression $x^3 - 4x^2 - 11x - 6$ is factorized as

a. $(x+1)(x-2)(x+3)$

b. $(x+1)(x+1)(x-6)$

c. $(x+1)(x+2)(x-3)$

d. $(x+1)(x-1)(x+6)$

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 111 Question Id : 5812 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

If one of the roots of the equation $k(x-1)^2 = 5x-7$ is double the other, then the sum of possible values of k is

a. -25

b. -23

c. 25

d. 23

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 112 Question Id : 5813 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

If the roots of the equation $(p+6)x^2+(p+6)x+2=0$ are real and equal, then the product of the possible values of p is

a. -6

b. 9

c. -12

d. 12

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 113 Question Id : 5815 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

A ladder is placed against a wall such that it first touches the top of the wall. If the foot of the ladder is 7 m away from wall and the ladder is inclined at an angle of 60^0 with the ground, then the difference (in m) of the length of the ladder and height of the wall is approximately

a. 0.87
b. 1.57
c. 1.88
d. 2.18

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 114 Question Id : 5816 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which dynasty controlled most of peninsular India between 8-10 cent.AD?

a. Chola
b. Chera
c. Chalukya
d. Pallava

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 115 Question Id : 5819 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

What is significant about the name of the months between September and December?

a. All have 31 days
b. These are winter
c. All are numbers
d. All are names of gods.

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 116 Question Id : 5820 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

What is the reason for the slowing down of overall population growth in 2011 census ?

a. Migration rate to overseas areas
b. No change in Urban population growth
c. Decline in rural population growth
d. Increase in death rate due to insurgency

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 117 Question Id : 5822 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

If a Department of Education does not inspect a school and ensure that it complies with the standards for a school, parents can file which kind of writ?

a. Haebus Corpus
b. Mandamus
c. Certiorari
d. Prohibition .

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 118 Question Id : 5824 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

What has led to the increase in the metals mining in India in the last 10 years?

a. Higher demand for iron ore in the world
b. Opening of mines and expansion of mining.
c. Better equipment and mining technology
d. Allocation of mines to new companies.

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 119 Question Id : 5827 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Why does a spoon appear to bend in a beaker of water?

a. Refraction
b. Reflection
c. Convection
d. Radiation

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 120 Question Id : 5828 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

What is the direction in which sound waves move in air?

a. Parallel
b. Upwards
c. Longitudinal
d. Downwards

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 121 Question Id : 5830 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

Which has the maximum amount of aluminum silicate?

a. Clay
b. Lime wash
c. Putty
d. Groat

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 122 Question Id : 5831 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

Which gas is used for preparing aereated water?

a. Oxygen
b. Nitrogen
c. Carbon dioxide
d. Hydrogen

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 123 Question Id : 5834 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which part of the human body does not have any significant role to play?

a. Pancreas
b. Duodenum
c. Colon
d. Appendix

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 124 Question Id : 5835 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

What is the effect of excessive transpiration in plants?

a. Wilting
b. Fast growth
c. Large leaves
d. Yellow leaves

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 125 Question Id : 5836 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which game is the Sudirman Cup related to?

a. Cricket
b. Hockey
c. Tennis
d. Badminton

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 126 Question Id : 5838 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

What is 'Vellithumpa' ?

a. A medicinal plant used to cure cancer
b. A new plant species found in the Western ghats
c. Snake species found in the Western ghats
d. Special indigenous species of frog.

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 127 Question Id : 5839 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

Which world economic group has launched the New Development Bank in 2015.

a. BRICS nations
b. SAARC nations
c. ASEAN nations
d. OPEC nations

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 128 Question Id : 5842 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

9 : 80 = ... : 624

a. 25
b. 24
c. 72
d. 21

Options :

Question Number : 129 Question Id : 5843 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

Affluent : Wealthy = ...: Angry

a. Indigenous
b. Ingenious
c. Indignant
d. Indigent

Options :

1. ✖ a

3. ✔ c

Question Number : 130 Question Id : 5845 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

Which of the five pairs is different from the other four?

4 – 64, 9 – 729, 7 – 343, 5 – 125, 8 - 256

a. 8 – 256
b. 4 - 64
c. 9 - 729
d. 5 – 125

Options :

Question Number : 131 Question Id : 5846 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

Which of the five groups is different from the other four?

TRPM, PNLJ, SQOM, HFDB, GECA

a. GECA
b. HFDB
c. TRPM
d. PNLJ

Options :

1. ✖ a

3. ✔ c

Question Number : 132 Question Id : 5847 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Each letter of the alphabet is coded as its rank in the alphabet if the letters are from K to Z. The codes of the letters from A to J are 31 to 40. WBIDC would then be coded as ....

a. 232493
b. 2332343833
c. 2332340933
d. 2332343933

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 133 Question Id : 5849 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

A boat is cruising against the current in a river flowing from east to west. A boy walking on its deck from its left to right. His sister is walking from the front end of the boat to the rear. In which direction are the boy and the girl walking?

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

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 134 Question Id : 5762 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which of the following is not a valid cell address in MS-Excel?

a. BB5
b. B5
c. 5AA
d. A55

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 135 Question Id : 5764 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The decimal equivalent of the binary number $(10101.101)_2$ is

a. 21.625
b. 12.625
c. 21.25
d. 12.25

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 136 Question Id : 5772 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

In a CRO, the time base signal is applied to

a. X plates
b. Y plates
c. either X or Y plates
d. alternately X and Y plates

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 137 Question Id : 5778 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

A parallel plate capacitor is charged to some potential by using a battery. After sometime, the battery is disconnected and the distance between the plates is doubled. Which one of the following is correct under such a situation?

a. The charge on the plates increases
b. The potential difference between the plates decreases
c. The capacitance of the capacitor increases
d. The electrostatic energy stored in the capacitor increases.

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 138 Question Id : 5782 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

A salt is soluble in water, if its

a. Hydration energy is less than its lattice energy
b. Hydration energy is more than its lattice energy
c. Hydration energy is equal to its lattice energy
d. The solubility of a salt does not depend on the relation between its hydration energy and lattice energy

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 139 Question Id : 5797 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

A mixture of 80 litres of spirit and water contain 20% water. How much water (in liters) must be added to it to increase the percentage of water to 25?

a. $5\frac{1}{3}$
b. 5
c. 4
d. $4\frac{4}{19}$

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 140 Question Id : 5798 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

A loan of Rs 40800 is to be paid back in two equal annual installments. If the interest charged is 12.5% per annum, compounded annually, the value of each installment will be

a. Rs 20400
b. Rs 22800
c. Rs 24100
d. Rs 24300

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d

Question Number : 141 Question Id : 5801 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

A trader allows a discount of $12\frac{1}{2}\%$ on an article on its marked price and gains 12% on it. What is the marked price of the article if its cost price is Rs 625?

a. Rs 780
b. Rs 800
c. Rs 840
d. Rs 860

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 142 Question Id : 5805 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

A and B can do a piece of work in 30 days and 40 days, respectively. Both begin together but A leaves off after some time. B alone finishes the remaining work in 5 days. After how many days did A leave?

a. 15
b. 12
c. 10
d. 9

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 143 Question Id : 5814 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

The value of $\tan2^0 \tan3^0 \ldots\ldots\ldots\ldots\tan45^0\ldots\ldots\ldots\ldots\tan87^0 \tan88^0/(\sin^2 39^0 + \cos^2 51^0) + (\sin^2 51^0 + \cos^2 39^0)$ is

a. 0
b. 1
c. $\frac{1}{2}$
d. $\frac{1}{4}$

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 144 Question Id : 5818 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Who founded the Bahiskrit Hitkarni sabha in 1925?

a. Jyotiba Phule
b. Babasaheb Ambedkar
c. Narayana Guru
d. E.V.R. Periyar

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 145 Question Id : 5823 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which is the most important Money bill that is passed in parliament ?

a. Budget for the nation
b. Special grant to states
c. Emergency expenses
d. Pay commission rules

Options :

1. ✔ a
2. ✖ b
3. ✖ c
4. ✖ d

Question Number : 146 Question Id : 5825 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

India has started with the production of which exotic food products?

a. Durum Wheat and Canola
b. Sunflower and Chillies
c. Quinoa and Olives
d. Rice and Sweet Corn

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 147 Question Id : 5829 Question Type : MCQ Option Shuffling : No
Correct : 1.0 Wrong : 0.33

Which of the following instruments is used for determining the purity of milk

a. Barometer
b. Lactometer
c. Thermometer
d. Hygrometre

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 148 Question Id : 5837 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

What is considered a leg before wicket ?

a. Ball is outside the off stump
b. Ball hits the bat and then the pad of the batsman
c. Ball is pitched on the stump and hits the pad .
d. Batsman offers no stroke

Options :

1. ✖ a
2. ✖ b
3. ✔ c
4. ✖ d

Question Number : 149 Question Id : 5848 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

If TERMINUS is coded as EIUSNMRT, how will READS be coded as?

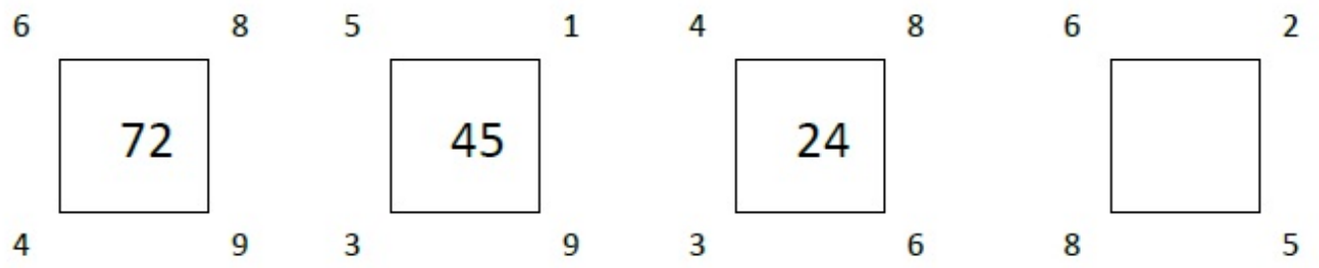
a. AESDR
b. EASDR
c. EARDS
d. ARDSE

Options :

1. ✖ a
2. ✔ b
3. ✖ c
4. ✖ d

Question Number : 150 Question Id : 5850 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

What number should come in the fourth square?



a. 180
b. 125
c. 60
d. 120

Options :

1. ✖ a
2. ✖ b
3. ✖ c
4. ✔ d