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**Memory Based Paper
(Section I)
28 April 2025**



60 Questions

Que. 1 The connecting wires used in an electric circuit are usually made of-

1. Copper
2. Silver
3. Plastic
4. Gold

Correct Option - 1

Que. 2 What is the unit of Solid angle?

1. Degree
2. None of the given options
3. Steradian
4. Radian

Correct Option - 3

Que. 3 The correct relation between ρ , R, l and A is:

1. $R = \frac{\rho A}{l}$
2. $\rho = \frac{RA}{l}$
3. $R = \rho l A$
4. $\rho = \frac{Rl}{A}$

Correct Option - 2

Que. 4 If the velocity of a moving body becomes twice of initial velocity, its kinetic energy will become _____ of initial kinetic energy.

1. Twice
2. Thrice
3. Four times
4. Half

Correct Option - 3

Que. 5 The SI unit of electric power is _____.

1. Newton
2. Watt
3. Joule

4. Calorie

Correct Option - 2

Que. 6 The purpose of a rheostat is

1. increase the magnitude of current only.
2. decrease the magnitude of current only.
3. increase or decrease the magnitude of current.
4. None of these

Correct Option - 3

Que. 7 In case of human eye, when light rays falls on the eye, most of the refraction for the light rays occurs at the

1. crystalline lens
2. iris
3. pupil
4. outer surface of the cornea

Correct Option - 4

Que. 8 Which of the following is responsible for most of the refraction of light rays entering our eyes?

1. Retina
2. Iris
3. Cornea
4. Eyeball

Correct Option - 3

Que. 9 The SI unit of the Universal gravitation constant is:

1. $\text{Nm}^2\text{kg}^{-2}$
2. $\text{Nm}^{-2}\text{kg}^{-2}$
3. Nmkg^2
4. More than one of the above

Correct Option - 1

Que. 10 Aluminium foil is used in wrapping the food. Which property of aluminium is used in making its foil?

1. malleability
2. ductility
3. sonorous

4. heat conductivity

Correct Option - 1

Que. 11 If $a + b = 7$ and $a - b = 1$, then what is the value of $a^3 + b^3$?

1. 97
2. 81
3. 87
4. 91

Correct Option - 4

Que. 12 In the museum the average of visitors in the month of March, April and May is 1500 and in May, June, July and August is 1800. Find the number of visitors in the month of May if the average of visitors from March to August is 1500?

1. 3000
2. 3300
3. 1500
4. 2700

Correct Option - 4

Que. 13 If a , b and c are the median, mode and range, respectively of the data : 8, 5, 4, 3, 2, 7, 3, 10, 9, 17, 12, 3, 8, 4, then what is the value of $(3a - 2b + c)$?

1. 29
2. 30
3. 26
4. 27

Correct Option - 4

Que. 14 If $x + y + z = 10$ and $xy + yz + zx = 15$, then find the value of $x^3 + y^3 + z^3 - 3xyz$.

1. 550
2. 525
3. 575
4. 660

Correct Option - 1

Que. 15 In $\triangle ABC$, $\angle A - \angle B = 33^\circ$, $\angle B - \angle C = 18^\circ$ What is the sum of the smallest and the largest angles of the triangle?

1. 92°

1. 143°
2. 125°
3. 108°

Correct Option - 3

Que. 16 A certain sum of money becomes three times of itself in 20 years at simple interest. In how many years does it become double of itself at the same rate of simple interest?

1. 8 years
2. 10 years
3. 12 years
4. 14 years

Correct Option - 2

Que. 17 A solid cube of volume 13824 cm^3 is cut into 8 cubes of equal volumes. The ratio of the surface area of the original cube to the sum of the surface areas of three of the smaller cubes is:

1. 8 : 3
2. 2 : 3
3. 4 : 3
4. 2 : 1

Correct Option - 3

Que. 18 A cylindrical solid with a diameter of 30 cm and a height of 1 m is melted down to create smaller cylindrical boxes with a diameter of 10 cm and a height of 10 cm each. How many small cylindrical boxes can be made from the material of the solid?

1. 60
2. 70
3. 80
4. 90

Correct Option - 4

Que. 19 Rohit multiplies a number by 2 instead of dividing the number by 2. Resultant number is what percentage of the correct value?

1. 200%
2. 300%
3. 50%
4. 400%

Correct Option - 4

Que. 20 If $x = 3^2 \times 2$ and $y = 2^3 \times 3$ and $z = 3^2 \times 4$, then find the LCM of xy , yz and zx .

1. 2592
2. 2416
3. 2748
4. 2936

Correct Option - 1

Que. 21 If Rita has Rs. 3,00,000 and she spent $1/3$ of her money on notebook and $1/4$ of the remaining on stationery items. Then find the money she has left with her.?

1. Rs. 20,000
2. Rs. 10,000
3. Rs. 1,50,000
4. Rs. 50,000

Correct Option - 3

Que. 22 In an election between two candidates one got 60% of the total valid votes, 90% of the votes were valid. If the total number of votes was 12000, then what was the number of valid votes that the other candidate got?

1. 8840
2. 4320
3. 10800
4. 6200

Correct Option - 2

Que. 23 A and B together can do a work in 8.75 days and B and C can do the same work together in 8 days and A alone can do the same work in 10 days. In how many days, C alone can do the work.

1. $270/31$ days
2. $280/31$ days
3. $290/31$ days
4. $260/31$ days

Correct Option - 2

Que. 24 If $\frac{\cos^2\theta}{\cot^2\theta - \cos^2\theta} = 3$, $0^\circ < \theta < 90^\circ$, then the value of $\cot\theta + \operatorname{cosec}\theta$ is:

1. $\sqrt{3}/2$
2. $\sqrt{3}$
3. $2\sqrt{3}$
4. $(3\sqrt{3})/4$

Correct Option - 2

Que. 25 A man spends 75% of his income. If his income increases by 20% and his expenditure also increases by 10%. The percentage of increase in his savings is

1. 60%
2. 50%
3. 40%
4. 20%

Correct Option - 2

Que. 26 Two items are sold for Rs. 20400 each. On one item there has been a gain of 60% and on the second item a loss of 15%. What was the overall loss or gain percentage in the transaction?

1. 15% loss
2. 13% gain
3. 11% gain
4. 12% loss

Correct Option - 3

Que. 27 When two trains are moving in opposite direction at a speed of 40 km/hr and 32 km/hr respectively, the faster train passes a man sitting in the slower train in 15 seconds. Find the length of the faster train.

1. 120 m
2. 300 m
3. 200 m
4. 100 m

Correct Option - 2

Que. 28 A person sells an article at 10% below its cost price. Had he sold it for Rs. 332 more, he would have made a profit of 20%. What is the original selling price (in Rs.) of the article?

1. 996
2. 1,028
3. 1,328
4. 896

Correct Option - 1

Que. 29 Rs. 8400 is divided among P, Q and R in the ratio of $2/3 : 3 : 1/3$ respectively. What is the share of R?

1. Rs. 700
2. Rs. 900
3. Rs. 1800

4. Rs. 1400

Correct Option - 1

Que. 30 What is the value of $[121 \div \{(\frac{1}{5} \text{ of } 25 + 3 \text{ of } 2) \div 5 \div 55\}]$?

1. 0
2. 3025
3. 3
4. 6

Correct Option - 2

Que. 31 Select the related word from the given alternative:

FS : UH :: NO : ?

1. MI
2. ML
3. LM
4. IM

Correct Option - 2

Que. 32 Read the following information carefully and answer the question given below.

J, K, L, M, N and O are members of a family. N is the father of O. L is the brother in law of N. K is the mother of N. J and K are married couples. Then how is J related to L if J has only two children?

1. Father
2. Father in law
3. Uncle
4. Brother

Correct Option - 2

Que. 33 Select the option that correctly replaces the question mark (?) in the given series.

EU, IR, MO, QL, ?

1. IU
2. UJ
3. UI
4. VI

Correct Option - 3

Que. 34 Select the number from among the given options that can replace the question mark (?) in the following series.

16, 33, 100, 401, ?

1. 1235
2. 804
3. 1588
4. 2006

Correct Option - 4

Que. 35 In the following question, select the related letters from the given alternatives.

ATXJ : BVAN :: YMOU : ?

1. ZORY
2. HUVL
3. UVXZ
4. ASND

Correct Option - 1

Que. 36 In a code language, HUMANITY is written as DYNSFRZM. How will GOODWILL be written in that language?

1. QBQNITLT
2. QQBNITTL
3. QQNBTITL
4. QQNBITTL

Correct Option - 4

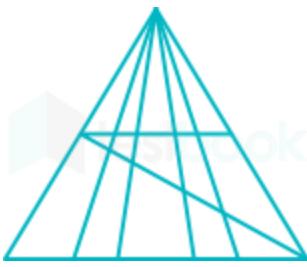
Que. 37 If '+' means '−', '÷' means '+', '−' means '×', and '×' means '÷'. Which of the following will be the value of the expression?

$$45 \times 5 + 27 \div 81 - 3$$

1. 227
2. 225
3. 235
4. 255

Correct Option - 2

Que. 38 How many triangles are there in the given figure?



1. 25
2. 14
3. 39
4. 40 or more

Correct Option - 4

Que. 39 In a certain code language, PROFANE is written as KOLCZKV. How will DISOBEY be written in that language?

1. ARPLYVV
2. WHGYLB
3. WFHLYBB
4. APRYLVV

Correct Option - 3

Que. 40 Which two numbers and two signs should be interchanged in the following equation to make it correct?

$$14 + 16 - 14 \times 9 \div 4 = 61$$

1. 16 and 14, + and \times
2. 16 and 9, + and -
3. 14 and 4, - and +
4. 14 and 9, + and \times

Correct Option - 2

Que. 41 Directions: Select the most appropriate antonym of the given word.

INNOVATE

1. Purchase
2. Export
3. Copy
4. Close

Correct Option - 3

Que. 42 Choose the correct form of modal auxiliary verb for the given sentence:

Why did you stay at a hotel in Mumbai? You _____ with your friend, Manish.

1. could not have been staying
2. could not stay
3. can not be stayed
4. could have stayed

Correct Option - 4

Que. 43 **Direction:** Select the option that is similar in meaning to the given word and mark your response accordingly.

Instigate

1. Subdue
2. Provoke
3. Quiet
4. Curb

Correct Option - 2

Que. 44 **Direction:** Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select the option "No improvement" required.

Harish's opinion certainly differs with you in this case.

1. Certainly differs from you
2. Certainly differ at you
3. Certainly differ by you
4. No improvement

Correct Option - 1

Que. 45 **Directions:** Select the option that expresses the given sentence in direct speech.

Bharati told Rakesh to call her when he reached there.

1. "Call her when you have reached here", Bharati told Rakesh.
2. "Call me when you reached there", Bharati says to Rakesh.
3. "Call me when you reach there", Bharati told Rakesh.
4. "Call him when you are reaching there", Bharati told Rakesh.

Correct Option - 3

Que. 46 Choose the appropriate conjunction for the given sentence:

_____ you have a minimum of 320 score in GRE, you are unlikely to get a seat in American universities.

1. Unless

2. However
3. Otherwise
4. Until

Correct Option - 1

Que. 47 **Direction:** Find out which part has an error and mark it as your answer. If there is no error, mark 'No error' as your answer.

Jack decided (A) / to reward with (B) / a dinner out. (C) / No error (D)

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

Correct Option - 2

Que. 48 **Direction:** A sentence has been given in Active/Passive Voice. Out of the four alternatives suggested, select the one which best expresses the same sentence in Passive/Active voice.

The students of the college have been punished by the professor for negligence of duty

1. The professor had punished the students of the college for negligence of duty
2. The professor has punished the students of the college for negligence of duty
3. The professor punished the students of the college for negligence of duty
4. The professor have punished the students of the college for negligence of duty

Correct Option - 2

Que. 49 Choose the appropriate preposition for the given sentence:

Initially, progress may be slow but never give _____ a child who isn't reading.

1. out of
2. up at
3. over
4. up on

Correct Option - 4

Que. 50 Give one word for the following expression:

The animals of a particular region or epoch.

1. Milch animal
2. Regional
3. Fauna
4. Flora

Correct Option - 3

Que. 51 In the given sentence identify the segment which contains the grammatical error.

Vincent Jonson, a musician, are going to lead an 80-man naval band in the Republic Day Parade this year.

1. Vincent Jonson, a musician
2. are going to lead
3. in the Republic Day Parade this year
4. an 80-man naval band

Correct Option - 2

Que. 52 **Direction:** Choose the response, whichever is the most appropriate expression and mark your response in your answer sheet accordingly.

A clarion call

1. A trumpet call
2. An intimidating voice
3. A strong request
4. An urgent order

Correct Option - 3

Que. 53 Choose the most appropriate determiner in the given sentence.

Can you see _____ boys up on the hill?

1. that
2. all
3. those
4. these

Correct Option - 3

Que. 54 **Directions:** Read the following passage and answer the given questions:

At the recent UN Ocean Conference, another 22 governments agreed to join the New Plastics Economy Global Commitment, which unites stakeholders around the goal of transitioning towards a circular economy for plastics. The New Plastics Economy is an effort to reduce plastic pollution. Co-led by the United Nations Environment Program (UNEP) and the Ellen MacArthur Foundation, the global commitment has over 500 signatories from businesses, governments, and other organisations committed to ensuring that plastic never becomes waste. The production, use, and disposal of plastics all contribute to the planetary crisis. UNEP's From Pollution to Solution report shows that around 400 million tonnes of plastic are produced annually, and 7 billion tonnes of all plastic manufactured between 1950 and 2017 has gone to waste. The equivalent of a garbage truckload of plastic is dumped into the ocean every minute, threatening biodiversity and damaging marine ecosystems, while greenhouse gas emissions linked to plastics are expected to reach 6.5 gigatonnes by 2050. "It is vital that we transition towards a circular approach that considers the full life cycle of plastics—from raw material extraction to end-of-life management—to reduce their impact on the planet." In addition to the global

commitment, world leaders agreed in March at the fifth session of the UN Environment Assembly on a historic resolution to create a legally binding agreement to end plastic pollution by 2024. To fight the widespread impact of pollution on society, UNEP launched #BeatPollution, a strategy for rapid, large-scale, and coordinated action against air, land, and water pollution. The strategy highlights the impact of climate change, loss of nature and biodiversity, and pollution on human health. Through a science-based message, the campaign shows how making a difference for a pollution-free planet is important for generations to come.

Whose initiative led to businesses, governments, and other organisations signing a global commitment to never again let plastic go to waste?

1. United Nations Environment Program
2. The Ellen MacArthur Foundation
3. Environmental Working Group
4. UNEP and the Ellen MacArthur Foundation

Correct Option - 4

Que. 55 What is the "New Plastics Economy Global Commitment" here?

1. The goal is not to implement a circular economy for plastics.
2. It is an attempt to minimise pollution from plastic.
3. Reducing the amount of plastic waste released in landfills is the goal of not using the three Rs—reuse, reduce, and recycle.
4. They will work to get rid of the plastic items we use.

Correct Option - 2

Que. 56 Saraswati Samman is given annually for outstanding contribution to

1. Sports
2. Literature
3. Fine arts
4. Classical music

Correct Option - 2

Que. 57 Resolution of Poorna Swaraj was passed in which congress session?

1. Lucknow Session of Congress, 1916
2. Gaya Session of Congress, 1922
3. Calcutta Session of Congress, 1928
4. Lahore Session of Congress, 1929

Correct Option - 4

Que. 58 Black Soil is NOT found in which State of India?

1. Punjab

2. Andhra Pradesh
3. Maharashtra
4. Madhya Pradesh

Correct Option - 1

Que. 59 _____ serves as the informal boundary between the Indian and Pakistan-administered areas of Jammu & Kashmir.

1. Line of Control(LOC)
2. Durand line
3. McMahon Line
4. None of the above

Correct Option - 1

Que. 60 Which of the following schemes aims to provide an integrated property validation solution for rural India?

1. WDF
2. SVAMITVA
3. NRLM
4. PCGS

Correct Option - 2

