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Memory Based Paper
(Section I)
26 Apr, 2025

60 Questions

Que. 1 The ratio of the monthly incomes of Radha and Rani is 3 : 2 and their expenditure ratio is 8 : 5 if each of them is saving Rs. 9,000 per month, then find the sum of the monthly incomes of Radha and Rani?

1. Rs. 132,000
2. Rs. 145,000
3. Rs. 135,000
4. Rs. 119,000

Correct Option - **3**

Que. 2 The HCF of two numbers is 9 and their LCM is 252. The sum of numbers is:

1. 108
2. 78
3. 90
4. 99

Correct Option - **4**

Que. 3 If a - b = 4 and $a^3 - b^3 = 88$, then find the value of $a^2 - b^2$.

1. $8\sqrt{6}$
2. $6\sqrt{6}$
3. $7\sqrt{2}$
4. $9\sqrt{6}$

Correct Option - **1**

Que. 4 What is the least number that leaves 7 as the remainder in each case, when divided by 10, 14, 12 and 8?

1. 821
2. 847
3. 842
4. 829

Correct Option - **2**

Que. 5 Sum of the digits of a two-digit number is 10. If 18 is added to the number, then the digits are reversed. What is the number?

1. 46
2. 27
3. 37

4. 62

Correct Option - **1**

Que. 6 Simple interest on a sum for 10 years is equal to 5% of the principle. In how many years interest will be equal to the principle?

1. 100
2. 150
3. 200
4. 250

Correct Option - **3**

Que. 7 What are the values of k for which the equation $4x^2 - kx + 9 = 0$ has real roots?

1. $k \leq -12$ and $k \geq 12$
2. $-12 < k < 12$
3. $12 < k < -12$
4. $-12 \leq k \leq 12$

Correct Option - **1**

Que. 8 Three piece of timber 143m, 78m and 117m long have to be divided into planks of the same length. What is the greatest possible length of each plank?

1. 7 m
2. 11 m
3. 13 m
4. 17 m

Correct Option - **3**

Que. 9 Simplify: $\frac{5}{28} \div \frac{28}{35} \div \frac{20}{112}$

1. 4/5
2. 5/4
3. 4/7
4. 7/4

Correct Option - **2**

Que. 10 A wheel travels a distance of 44 km in 5000 revolutions. What is radius (in meter) of the wheel?

1. 1.4
2. 1.2
3. 1.5

4.   1.8

Correct Option **- 1**

Que. 11   Three cubes each of sides 7 cm are joined end to end. Find the surface area of the resulting solid.

1. 686 cm^2
2.   686 cm
3. 882 cm^2
4.   882 cm

Correct Option **- 1**

Que. 12   A train passes a platform in 48 seconds and a passenger standing on the platform in 30 seconds. If the speed of the train is 72 km/hr, what is the length of the platform?

1.   440m
2.   380m
3.   360m
4.   400m

Correct Option **- 3**

Que. 13   A shopkeeper decides to raise the marked price of an article by 10%, How much discount should he allow so as to be able to sell the article at the original marked price?

1.   19/2%
2.   73/9%
3.   100/11%
4.   10%

Correct Option **- 3**

Que. 14   A and B working together can complete a job in 30 days. The ratio of their efficiencies is 3 : 2. In how many days can the faster person complete the job?

1.   50
2.   30
3.   40
4.   60

Correct Option **- 1**

Que. 15   A man covers a certain distance by scooter at 64 km/h and he returns to the starting place riding a bicycle at 16 km/h. Find the average speed for the whole journey.

1.   25.6 km/h

2. 26.5 km/h
3. 40 km/h
4. 51.2 km/h

Correct Option - **1**

Que. 16 | Twenty workers finish a piece of work in 30 days. After how many days should 5 workers leave the job so that the work is completed in 35 days?

1. 15 days
2. 20 days
3. 10 days
4. 5 days

Correct Option - **1**

Que. 17 | If x + 1/x = 1, then, find the value of $x^2 + 1/x^2 + 6$ is-

1. 4
2. 5
3. 6
4. 8

Correct Option - **2**

Que. 18 | Three successive discounts of 20%, 25% and 15% are given. What will be the net discount (in percentage)?

1. 60
2. 49
3. 55
4. 65

Correct Option - **2**

Que. 19 | If Rs. 25,000 is to be divided between A, B and C in the ratio 1/10 : 1/6 : 1/15, then how much will C get (in Rs)?

1. 5000
2. 7500
3. 10000
4. 12500

Correct Option - **1**

Que. 20 | A seller gives 1 item free on purchase of every 4 articles. If the seller also gives a 10% discount and still earns 10% profit then find the ratio of marked price and cost price.

1. 55 : 36
2. 13 : 8
3. 12 : 7
4. 13 : 9

Correct Option - **1**

Que. 21 Select the option that is related to the third number in the same way as the second number is related to the first number.

356 : 21 :: 269 : ?

1. 25
2. 23
3. 39
4. 21

Correct Option - **4**

Que. 22 In a family of seven with two married couples, M is the brother of N and the cousin of R. P and Q are brothers. N is the niece of S and T is the aunt of R. How is T related to M?

1. Mother
2. Sister
3. Aunt
4. Grandmother

Correct Option - **1**

Que. 23 Select the option that is related to the third number in the same way as the second number is related to the first number.

9 : 107 :: 8 : ?

1. 112
2. 100
3. 98
4. 96

Correct Option - **4**

Que. 24 A series is given with one term missing. Choose the correct alternatives from the given ones that will complete the series.

15, 26, 48, 81, 125, ?

1. 160
2. 150

3. 170

4. 180

Correct Option - **4**

Que. 25 What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and '×' and '÷' are interchanged?

109 - 55 × 605 ÷ 77 + 93 = ?

1. 82
2. 23
3. 42
4. 53

Correct Option - **2**

Que. 26 In a certain code language, 'ALPINE' is coded as '171' and 'SPRING' is coded as '83'. How will 'CAPITAL' be coded in that language?

1. 93
2. 124
3. 186
4. 62

Correct Option - **3**

Que. 27 Select the figure that will replace the question mark (?) in the following figure series.

1.

2.

3.
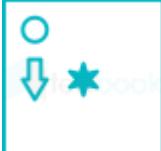
4.
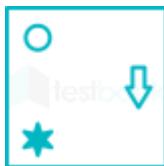
Correct Option **- 4**

Que. 28 How many triangles are there in the given figure ?
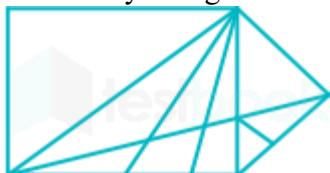
1. 23
2. 24
3. 25
4. 27

Correct Option **- 3**

Que. 29 In a certain code language, MAGIC is coded as NZTHX and FLUID is coded as UOTHW. How will be HORSE coded in that language?

1. SLIHV
2. SNIHV
3. SNIHD
4. SLIHD

Correct Option **- 3**

Que. 30 Which of the following terms will replace the question mark (?) in the given series?
AXY, EZW, ICU, OHS, ?

1. UOQ
2. UPQ
3. UNQ
4. VOQ

Correct Option **- 1**

Que. 31 **Direction: Select the most appropriate synonym of the given word.**
Wealthy

1. Affluent
2. Depressed
3. Poor

4.   Lacking

Correct Option - **1**

Que. 32 | **Select the most appropriate word to fill in the blank.**

He _____ for me when I reached office,

1.   had waited
2.   waited
3.   was waiting
4.   waits

Correct Option - **3**

Que. 33 | **Choose the appropriate preposition for the given sentence.**

We are pleased to offer it to you _____ a discounted price.

1.   at
2.   over
3.   in
4.   on

Correct Option - **1**

Que. 34 | Select the most appropriate ANTONYM of the given word.

Hesitate

1.   Reform
2.   Vacillate
3.   Imitate
4.   Resolve

Correct Option - **4**

Que. 35 | Fill in the blank with appropriate modal verb :

When I was a boy, I _____ walk forty miles in a day.

1.   should
2.   can
3.   could
4.   must

Correct Option - **3**

Que. 36 | **Select the most appropriate meaning of the given idiom.**
Red-letter day

1. a very special day
2. a frightful day
3. a very cold day
4. a very hot day

Correct Option **- 1**

Que. 37 | **Select the correct direct form of the given sentence.**
He said that he was sorry for all that.

1. "I am sorry for all then." He says.
2. "I was sorry for all this." He said.
3. "I am sorry for all that." He says.
4. "I am sorry for all this." He said.

Correct Option **- 4**

Que. 38 | **Choose the correct active voice of the given sentence from the options below:**
The decision was taken by me.

1. I have taken the decision.
2. I had taken the decision.
3. I took the decision.
4. I take decision.

Correct Option **- 3**

Que. 39 | **Select the most appropriate synonym of the given word.**
CATASTROPHE

1. restraint
2. calamity
3. expansion
4. prosperity

Correct Option **- 2**

Que. 40 | **Select the most appropriate option to improve the underlined segment in the given sentence. If there is no need to improve it, select 'no improvement required'.**
The first step in making a kite is to fasten two sticks of bamboo together in the form of a cross.

1. in making a kite is to be fastened
2. in making a kite is to fastening
3. into making a kite is fasten
4. no improvement required

Correct Option - **4**

Que. 41 **Direction: In the following question, find out which part of the sentence has an error. If there is no error, (d) is the answer.**

No sooner had the hockey match started (a)/ when it began (b)/ to rain. (c)/ No Error. (d)

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

Correct Option - **2**

Que. 42 Select the word which means the same as the group of words given.

One who walks on street

1. On-looker
2. Bystander
3. Motorist
4. Pedestrian

Correct Option - **4**

Que. 43 **A sentence has been given with a blank to be filled with an appropriate option. Choose the correct alternative.**

I always try to _____ chocolates for you.

1. brought
2. bought
3. bringing
4. bring

Correct Option - **4**

Que. 44 Read the following passage and answer the question that follows:

With Manuel Neuer's unexpected injury, Bayern Munich has recruited Borussia Mönchengladbach's Yann Sommer, who will be the leading man until the season's end. But how appealing is being the backup goalkeeper for Germany? Manuel Neuer's injury during a post-World Cup ski trip put Bayern Munich in a precarious spot.

The 36-year-old is expected to miss the remainder of the current season after breaking his leg in a skiing accident. Though perhaps not the keeper he once was, Neuer's loss is not ideal for a club with consistently high aspirations, winning the Champions League among them.

Bayern's goalkeeper situation was a frequent news topic over the holidays, with the defending league champions linked with various big names before eventually recruiting Yann Sommer from Borussia Mönchengladbach—the Swiss goalkeeper has signed a contract until June 2025.

"Yann Sommer is a valuable addition for us because he has a wealth of international experience and has already played in the Bundesliga for many years," Bayern CEO and former goalkeeper Oliver Kahn said as part of a club statement. "He has everything required to contribute immediately to our success." "We're certain we can achieve our goals with Yann Sommer."

How did the Bayern Munich goalkeeper get injured?

1. He met with a car accident
2. He fell down during training session
3. because of a skiing accident
4. None of the above

Correct Option - **3**

Que. 45 Which is the former team of Yann Sommer?

1. Bayern Munich
2. Borussia Dortmund
3. Borussia Mönchengladbach
4. None of the above

Correct Option - **3**

Que. 46 The Non-Cooperation Movement started in which year?

1. 1900
2. 1920
3. 1940
4. 1935

Correct Option - **2**

Que. 47 What is the Capital of Uganda ?

1. Kampala
2. Malabo
3. Bangkok
4. Kuala Lumpur

Correct Option - **1**

Que. 48 Who amongst the following discovered Radium?

1. Albert Einstein
2. Michael Faraday
3. Marie Curie
4. Richard Feynmann

Correct Option - **3**

Que. 49 Which of the following is an input device?

1. Projector
2. Scanner
3. Monitor
4. Speaker

Correct Option - **2**

Que. 50 Who is the recipient of the Major Dhyan Chand Khel Ratna Award 2024 for his outstanding contribution to sports?

1. Virat Kohli
2. Neeraj Chopra
3. Manika Batra
4. Harmanpreet Singh

Correct Option - **4**

Que. 51 What is the SI unit for electric flux?

1. $N\,m\,C^{-1}$
2. $N\,C^{-1}\,m^2$
3. $N^{-1}\,m\,C^2$
4. None of the above

Correct Option - **2**

Que. 52 Electron-Volt (eV) is the unit of _____.

1. electric potential
2. electric power
3. electric energy
4. electric force

Correct Option - **3**

Que. 53 What is the dimensional formula of the universal gravitational constant?

1. $M^{-1}\,L^3\,T^{-2}$
2. $M^{-1}\,L^3\,T^{-1}$
3. $M^{-1}\,L^2\,T^{-2}$
4. $M^0\,L^0\,T^0$

Correct Option - **1**

Que. 54 Unit of power is _____

1. Watt
2. Kilowatt
3. Horsepower
4. All of the above

Correct Option - **4**

Que. 55 The heating element in an electric heater is made of which metal?

1. Copper
2. Silver
3. Lead
4. Nichrome

Correct Option - **4**

Que. 56 _____ does not obey newton's law of motion.

1. Real force
2. Pseudo force
3. Both Real and Pseudo force
4. None of the above

Correct Option - **2**

Que. 57 Which of the following instruments is used to measure pressure?

1. Barometer
2. Anemometer
3. Thermometer
4. Hygrometer

Correct Option - **1**

Que. 58 The atomic mass of carbon-12 isotope is:

1. 12 u
2. 14 u
3. 6 u
4. 16 u

Correct Option - **1**

Que. 59 What is the unit of Torque?

1. kg/cm^2
2. Kg/cm
3. Kg-cm
4. gm/cc

Correct Option **- 3**

Que. 60 An object A with a mass m and velocity v has a kinetic energy of 100 J. Then the kinetic energy of an object B with a mass of 2 m and velocity v is:

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

Correct Option **- 2**