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| Question | **The ratio of present age of two brothers is 1 : 2 and 5 years back the ratio was 1 : 3. What will be the ratio of their age after 5 years ?** | |
| Type | multiple\_choice | |
| Option | **(1) 1 : 4** | incorrect |
| Option | **(2) 2 : 3** | incorrect |
| Option | **(3) 3 : 5** | correct |
| Option | **(4) 5 : 6** | incorrect |
| Solution |  | |
| Marks | 1 | 0.33 |

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| --- | --- | --- |
| Question | **If 3 + 7 = 250, then x is equal to** | |
| Type | multiple\_choice | |
| Option | **(1) 5** | incorrect |
| Option | **(2) 3** | INcorrect |
| Option | **(3) 2** | correct |
| Option | **(4) 1** | incorrect |
| Solution |  | |
| Marks | 1 | 0.33 |

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| Question | **The average marks obtained by a class of 60 students is 65. The average marks of half of the students is found to be 85. The average marks of the remaining students is** | |
| Type | multiple\_choice | |
| Option | **(1) 35** | incorrect |
| Option | **(2) 45** | correct |
| Option | **(3) 55** | incorrect |
| Option | **(4) 65** | incorrect |
| Solution |  | |
| Marks | 1 | 0.33 |

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| Question | **A boat goes 75 km upstream in 3 hours and 60 km downstream in**  **1.5 hours. The speed of the boat in still water is :** | |
| Type | multiple\_choice | |
| Option | **(1) 32.5 kmph** | correct |
| Option | **(2) 30 kmph** | incorrect |
| Option | **(3) 65 kmph** | incorrect |
| Option | **(4) 60 kmph** | incorrect |
| Solution |  | |
| Marks | 1 | 0.33 |

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| Question | **AD is the median of a triangle ABC and O is the centroid such that AO = 10 cm. The length of OD (in cm) is** | |
| Type | multiple\_choice | |
| Option | **(1) 4** | incorrect |
| Option | **(2) 5** | correct |
| Option | **(3) 6** | incorrect |
| Option | **(4)** | incorrect |
| Solution |  | |
| Marks | 1 | 0.33 |

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| Question | **The least number, which when divided by 12, 15, 20 or 54 leaves a remainder of 4 in each case, is :** | |
| Type | multiple\_choice | |
| Option | **(1) 450** | incorrect |
| Option | **(2) 454** | incorrect |
| Option | **(3) 540** | incorrect |
| Option | **(4) 544** | correct |
| Solution |  | |
| Marks | 1 | 0.33 |

|  |  |  |
| --- | --- | --- |
| Question | **log0.5x = 25** | |
| Type | multiple\_choice | |
| Option | **(a)** | correct |
| Option | **(b)** | incorrect |
| Option | **(c)** | incorrect |
| Option | **(d)** | incorrect |
| Solution |  | |
| Marks | 1 | 0.33 |

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| Question | **The diagonal of a right angle isosceles triangle is 5 cm. Its area will be** | |
| Type | multiple\_choice | |
| Option | **(1) 5 sq.cm** | incorrect |
| Option | **(2) 6.25 sq.cm** | correct |
| Option | **(3) 6.50 sq.cm** | incorrect |
| Option | **(4) 12.5 sq.cm** | incorrect |
| Solution |  | |
| Marks | 1 | 0.33 |

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| Question | **The ratio of the volume of water and glycerin in 240cc of a mixture is 1 : 3. The quantity of water (in cc) that should be added to the mixture so that the new ratio of the volumes of water and glycerin becomes 2:3 is** | |
| Type | multiple\_choice | |
| Option | **(1) 55 cc** | incorrect |
| Option | **(2) 60 cc** | correct |
| Option | **(3) 62.5 cc** | incorrect |
| Option | **(4) 64 cc** | incorrect |
| Solution |  | |
| Marks | 1 | 0.33 |

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| --- | --- | --- |
| Question | **The smallest number to be added to 1000, so that 45 divides the sum exactly, is :** | |
| Type | multiple\_choice | |
| Option | **(1) 35** | correct |
| Option | **(2) 80** | incorrect |
| Option | **(3) 20** | incorrect |
| Option | **(4) 10** | incorrect |
| Solution |  | |
| Marks | 1 | 0.33 |

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| --- | --- | --- |
| Question | **Two pipes A and B can separately fill a tank in 2 hours and 3 hours respectively. If both the pipes are opened simultaneously in the empty tank, then the tank will be filled in** | |
| Type | multiple\_choice | |
| Option | **(1) 1 hour 12 minutes** | correct |
| Option | **(2) 2 hours 30 minutes** | incorrect |
| Option | **(3) 1 hour 15 minutes** | incorrect |
| Option | **(4) 1 hour 20 minutes** | incorrect |
| Solution |  | |
| Marks | 1 | 0.33 |

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| --- | --- | --- |
| Question | **The cost price of 15 articles is same as the selling price of 10 articles. The profit percent is :** | |
| Type | multiple\_choice | |
| Option | **(1) 30%** | incorrect |
| Option | **(2) 40%** | incorrect |
| Option | **(3) 50%** | correct |
| Option | **(4) 45%** | incorrect |
| Solution |  | |
| Marks | 1 | 0.33 |

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| Question | **By selling a table for ₹ 1140, a man loses 5%. in order to gain 5%, the table must be sold for** | |
| Type | multiple\_choice | |
| Option | **(1) ₹ 1260** | correct |
| Option | **(2) ₹ 1320** | incorrect |
| Option | **(3) ₹ 1180** | incorrect |
| Option | **(4) ₹ 1250** | incorrect |
| Solution |  | |
| Marks | 1 | 0.33 |

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| --- | --- | --- |
| Question | **If 8 (P’s Capital) = 10 ( Q’s Capital ) = 12 ( R’s Capital ) , then out of the total profit of Rs 2590 , R will receive ?** | |
| Type | multiple\_choice | |
| Option | **1) Rs. 740** | incorrect |
| Option | **2) Rs. 630** | incorrect |
| Option | **3) Rs. 840** | correct |
| Option | **4) Rs. 730** | incorrect |
| Solution |  | |
| Marks | 1 | 0.33 |

|  |  |  |
| --- | --- | --- |
| Question | **Mita’s income is 25% more than that of Sita. What percent is Sita’s income less than that of Mita ?** | |
| Type | multiple\_choice | |
| Option | **(1) 25%** | incorrect |
| Option | **(2) 24%** | incorrect |
| Option | **(3) 22 %** | incorrect |
| Option | **(4) 20%** | correct |
| Solution |  | |
| Marks | 1 | 0.33 |

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| Question | **In how many ways 4 Indians, 5 Africans and 7 Japanese be seated in a row so that all person of same nationality sits together** | |
| Type | multiple\_choice | |
| Option | **a) 4! 5! 7! 3!** | correct |
| Option | **b) 4! 5! 7! 5!** | incorrect |
| Option | **c) 4! 6! 7! 3!** | incorrect |
| Option | **d) can’t be determined** | incorrect |
| Solution | **Answer – a) 4! 5! 7! 3!**  **Explanation :**  **4 Indians can be seated together in 4! Ways, similarly for Africans and Japanese in 5! and 7!**  **respectively. So total ways = 4! 5! 7! 3!** | |
| Marks | 1 | 0.33 |

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| --- | --- | --- |
| Question | **From a deck of 52 cards, 3 cards are chosen at random. What is the probability that all are face cards?** | |
| Type | multiple\_choice | |
| Option | **A) 14/1105** | incorrect |
| Option | **B) 19/1105** | incorrect |
| Option | **C) 23/1105** | incorrect |
| Option | **D) 11/1105** | correct |
| Solution | **Option D**  **Solution:**  **There are 3\*4 = 12 face cards in 52 cards**  **So required probability = 12C3 / 52C3 = 11/1105** | |
| Marks | 1 | 0.33 |

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| --- | --- | --- |
| Question | **If = , the ratio of (2x + 3y) and (3y – 2x) is** | |
| Type | multiple\_choice | |
| Option | **(1) 2 : 1** | incorrect |
| Option | **(2) 3 : 2** | incorrect |
| Option | **(3) 1 : 1** | incorrect |
| Option | **(4) 3 : 1** | correct |
| Solution |  | |
| Marks | 1 | 0.33 |

|  |  |  |
| --- | --- | --- |
| Question | **In what time will 8,000, at 3% per annum, produce the sameinterest as 6, 000 does in 5 years at 4 % simple interest ?** | |
| Type | multiple\_choice | |
| Option | **(1) 5 years** | correct |
| Option | **(2) 6 years** | incorrect |
| Option | **(3) 3 years** | incorrect |
| Option | **(4) 4 years** | incorrect |
| Solution |  | |
| Marks | 1 | 0.33 |

|  |  |  |
| --- | --- | --- |
| Question | **The simple interest on 4,000 in 3 years at the rate of x% per annum equals the simple interest on 5,000 at the rate of 12% per annum in 2 years. The value of x is** | |
| Type | multiple\_choice | |
| Option | **(1) 10%** | correct |
| Option | **(2) 6%** | incorrect |
| Option | **(3) 8%** | incorrect |
| Option | **(4) 9%** | incorrect |
| Solution |  | |
| Marks | 1 | 0.33 |

|  |  |  |
| --- | --- | --- |
| Question | **What will come in place of question mark (?) in the following equations?**  **16% of 500 + 262 = ? × 36** | |
| Type | multiple\_choice | |
| Option | **(a) 25** | incorrect |
| Option | **b) 20** | incorrect |
| Option | **c) 28** | incorrect |
| Option | **d) 21** | correct |
| Solution |  | |
| Marks | 1 | 0.33 |

|  |  |  |
| --- | --- | --- |
| Question | **What approximate value should come in place of question mark (?) in**  **the following equations**  **÷ 3.89 – 7.86 x 6.01 = ? – 45.83** | |
| Type | multiple\_choice | |
| Option | **a) 21** | incorrect |
| Option | **b) 47** | correct |
| Option | **c) 26** | incorrect |
| Option | **d) 32** | incorrect |
| Solution |  | |
| Marks | 1 | 0.33 |

|  |  |  |
| --- | --- | --- |
| Question | **If a man running at 15 kmph crosses a bridge in 5 minutes,the length of the bridge is** | |
| Type | multiple\_choice | |
| Option | **(1) 1000 metres** | incorrect |
| Option | **(2) 500 metres** | incorrect |
| Option | **(3) 750 metres** | incorrect |
| Option | **(4) 1250 metres** | correct |
| Solution |  | |
| Marks | 1 | 0.33 |

|  |  |  |
| --- | --- | --- |
| Question | **If A and B together can complete a work in 12 days, B and C together in 15 days and C and A together in 20 days, then B alone can complete the work in** | |
| Type | multiple\_choice | |
| Option | **(1) 30 days** | incorrect |
| Option | **(2) 25 days** | incorrect |
| Option | **(3) 24 days** | incorrect |
| Option | **(4) 20 days** | correct |
| Solution |  | |
| Marks | 1 | 0.33 |

|  |  |  |
| --- | --- | --- |
| Question | **45 men can complete a work in 16 days. Four days after they started working, 36 more men joined them. How many days will they now take to complete the remaining work ?** | |
| Type | multiple\_choice | |
| Option | **(1) 6 days** | incorrect |
| Option | **(2) 8 days** | incorrect |
| Option | **(3) 6 2/3 days** | correct |
| Option | **(4) 7 2/4 days** | incorrect |
| Solution |  | |
| Marks | 1 | 0.33 |

|  |  |  |
| --- | --- | --- |
| Question | **If 𝛉 be an acute angle and 7 sin2 𝛉 + 3 cos2 𝛉 = 4, then the value of tan 𝛉 is** | |
| Type | multiple\_choice | |
| Option | **(1)** | incorrect |
| Option | **(2)** | correct |
| Option | **(3) 1** | incorrect |
| Option | **(4) 0** | incorrect |
| Solution |  | |
| Marks | 1 | 0.33 |

|  |  |  |
| --- | --- | --- |
| Question | **Directions (1-4) : The following pie-chart shows the monthly expenditure of a family on food, house rent, clothing, education, fuel and miscellaneous. Study the pie-chart and answer the questions** | |
| Type | comprehension | |
| Question | **If the percentage of expenditure on food is x% of the total percentage of expenditure on clothing, education and fuel, then x equals** | |
| Type | multiple\_choice | |
| Option | **(1) 66** | incorrect |
| Option | **(2) 66** | incorrect |
| Option | **(3) 66** | correct |
| Option | **(4) 67** | incorrect |
| Solution |  | |
| Marks | 1 | 0.33 |

|  |  |  |
| --- | --- | --- |
| Question | **Directions (1-4) : The following pie-chart shows the monthly expenditure of a family on food, house rent, clothing, education, fuel and miscellaneous. Study the pie-chart and answer the questions** | |
| Type | comprehension | |
| Question | **If the expenditure for food is 9000, then the expenditure for education is** | |
| Type | multiple\_choice | |
| Option | **(1) 5000** | incorrect |
| Option | **(2) 5200** | incorrect |
| Option | **(3) 5400** | correct |
| Option | **(4) 6000** | incorrect |
| Solution |  | |
| Marks | 1 | 0.33 |

|  |  |  |
| --- | --- | --- |
| Question | **Directions (1-4) : The following pie-chart shows the monthly expenditure of a family on food, house rent, clothing, education, fuel and miscellaneous. Study the pie-chart and answer the questions** | |
| Type | comprehension | |
| Question | **The central angle of the sector for the expenditure on fuel (in degrees) is** | |
| Type | multiple\_choice | |
| Option | **(1) 50.4** | incorrect |
| Option | **(2) 54** | correct |
| Option | **(3) 57.6** | incorrect |
| Option | **(4) 72** | incorrect |
| Solution |  | |
| Marks | 1 | 0.33 |

|  |  |  |
| --- | --- | --- |
| Question | **Directions (1-4) : The following pie-chart shows the monthly expenditure of a family on food, house rent, clothing, education, fuel and miscellaneous. Study the pie-chart and answer the questions** | |
| Type | comprehension | |
| Question | **If the expenditure on fuel is 3000, the total expenditure excluding expenditure on house rent and education is** | |
| Type | multiple\_choice | |
| Option | **(1) 11600** | incorrect |
| Option | **(2) 12000** | incorrect |
| Option | **(3) 12400** | correct |
| Option | **(4) 12500** | incorrect |
| Solution |  | |
| Marks | 1 | 0.33 |