

Quant Mega Quiz for SSC Tier-1

Q1. A takes thrice as much time as B and twice as much time as C to complete a piece of work. They together complete the work in 1 day. In what time, will A alone complete the work.

- (a) 5 days
- (b) 6 days
- (c) 4 days
- (d) 7 days

Q2. If the length of three sides of a triangle are 12 cm, 16 cm and 20 cm, then find the length of the median to the largest side?

- (a) 12 cm
- (b) 8 cm
- (c) 6 cm
- (d) 10 cm

Q3. If $\sqrt{5} = 2.236$, then find the value of $\frac{4+\sqrt{5}}{4-\sqrt{5}}$?

- (a) 3.535
- (b) 4.235
- (c) 5.125
- (d) 6.236

Q4.

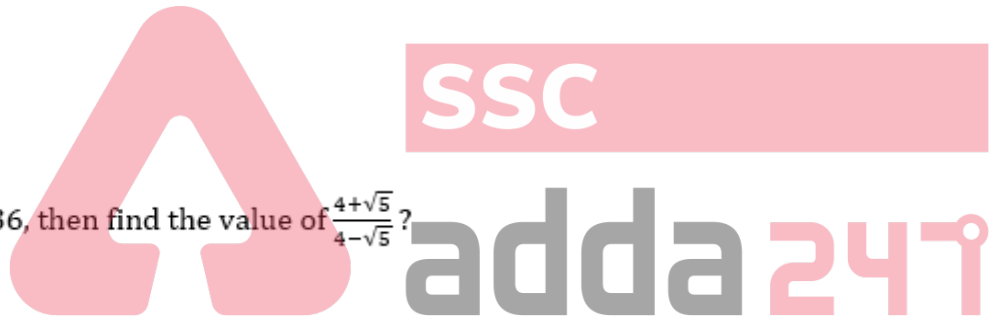
Find the value of

$$[(5^{-1} - 6^{-1})^{-1} - (2^{-1} - 3^{-1})^{-1}]$$

- (a) 24
- (b) 26
- (c) 30
- (d) 40

Q5. Find the value of $\sqrt{7 - 2\sqrt{10}} + \sqrt{5 + 2\sqrt{6}}$

- (a) $\sqrt{5} + \sqrt{2}$
- (b) $\sqrt{3} + \sqrt{5}$
- (c) $\sqrt{3} + \sqrt{2}$
- (d) $\sqrt{5}$



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Q6. $[4^2 + 5^2 + 6^2 + 7^2 + 8^2]$ is equal to?

- (a) 636
- (b) 650
- (c) 635
- (d) 646

Q7. If the circumference of the circle is 11 cm and the angle of a sector of the circle is 90° . Find the area of sector? $(\pi = \frac{22}{7})$

- (a) $2\frac{13}{32} \text{ cm}^2$
- (b) $3\frac{13}{32} \text{ cm}^2$
- (c) $1\frac{29}{48} \text{ cm}^2$
- (d) $2\frac{27}{32} \text{ cm}^2$

Q8. The discount series 20%, 30% and 40% is equivalent to single discount of

- (a) 50%
- (b) 56.8%
- (c) 60%
- (d) 66.4%



Q9. A shopkeeper allows 20% discount on his marked price. If the cost price of the article is Rs. 100 and he has to make a profit of 20%, then his Marked price must be.

- (a) 130 rs.
- (b) 120 rs.
- (c) 150 rs.
- (d) 160 rs.

Q10. If $\frac{a}{3} = \frac{b}{5} = \frac{c}{7}$, then find the value of $\frac{a+b+c}{b}$?

- (a) 3
- (b) 4
- (c) 5
- (d) 7

Q11. A man spends $28\frac{4}{7}\%$ on food, $16\frac{2}{3}\%$ of the remaining on house rent and 50% of the remaining on travelling. If he is left with 2500 Rs. Then find how much money was with him?

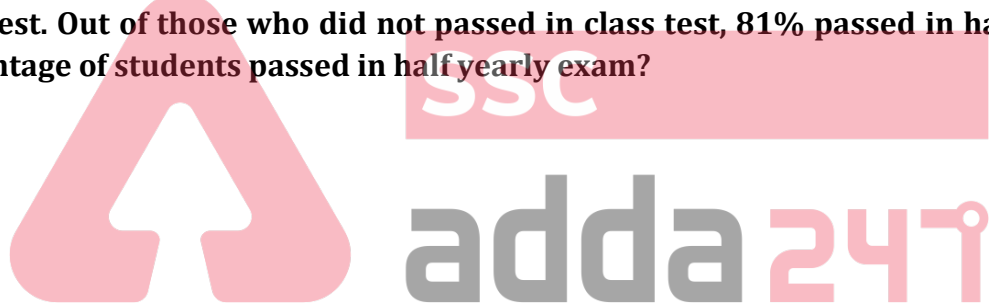
- (a) 8700 Rs.
- (b) 8400 Rs.
- (c) 8500 Rs.
- (d) 8100 Rs.

Q12. In a national survey, voter of national party A in 2011 is 2.5 lakh. In 2012 the voter of National Party A increases by 60%. If in 2012 the voters of National Party B is $87\frac{4}{8}\%$ of voter of National Party A and there is an increase of 40% in the voters of National Party B from the year 2011. Then find the number of voters of National Party B in 2011?

- (a) 1.75 lakh
- (b) 2.5 lakh
- (c) 3 lakh
- (d) 2.75 lakh

Q13. In a class test 68% passed in a class test. Out of these (passed in class test) only 85% passed in half yearly test. Out of those who did not pass in class test, 81% passed in half yearly exam. Find the percentage of students passed in half yearly exam?

- (a) 82.17%
- (b) 83.91%
- (c) 83.72%
- (d) 85%



Q14. Income of A is $128\frac{4}{7}\%$ of income of B and income of C is 120% of income of A. If the total income of all the three is 80400, then find the sum of income of A and B?

- (a) 48000
- (b) 58000
- (c) 52000
- (d) None of these

Q15. In CSAT examination there are 4 subject each containing 25 questions. If a student answered 80% of Mathematics, 60% of Reasoning, 72% of General awareness and 76% of English problems correctly. She did not pass as she got less than 75% of the problems correct. How much more questions should she answer correctly to earn 75% passing grade (considering there is no negative marking)?

- (a) 3
- (b) 4
- (c) 5
- (d) 6

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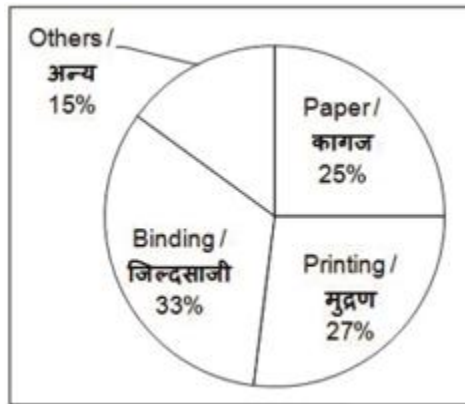
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Directions (16-20): The given pie chart shows the expenditure (in degrees) incurred in making a book.



Q16. If the total expenditure is Rs 60000, then what is the expenditure (in Rs) on the Printing?

- (a) 18400
- (b) 14800
- (c) 13400
- (d) 16200

Q17. What is the central angle (in degrees) of the sector made by the expenditure on Paper?

- (a) 25
- (b) 75
- (c) 90
- (d) 120

Q18. The expenditure on Binding is how much percent more than the expenditure on Paper?

- (a) 32
- (b) 24.24
- (c) 28.18
- (d) 34

Q19. If expenditure on Paper is Rs 20000, then what is the expenditure (in Rs) on Binding?

- (a) 24600
- (b) 26400
- (c) 28000
- (d) 22800

Q20. In Others there are only two types of expenditures viz. Marketing and Distribution in ratio 3 : 2 respectively. What will be the central angle (in degrees) made by the sector of expenditure on Marketing?

- (a) 21.6
- (b) 32.4
- (c) 27
- (d) 36

Q21. A bag contains 216 in the form of one rupee, 50paise and 25 paise coins in the ratio of 2 : 3 : 4. The number of 50 paise coins is :

- (a) 96
- (b) 144
- (c) 114
- (d) 141

Q22. In a mixture of 45 litres, the ratio of milk and water is 4 : 1. How much water must be added to make the mixture ratio 3 : 2 ?

- (a) 72 litres
- (b) 24 litres
- (c) 15 litres
- (d) 1.5 litres

Q23. A started a business with Rs 4500 and another person B joined after some period with Rs 3000. Determine this period after B joined the business if the profit at the end of the year is divided in the ratio 2 : 1

- (a) After 3 months
- (b) After 4 months
- (c) After 6 months
- (d) After 2 (1/2) months

Q24. A cistern has two taps (which fill it in 12 min and 15 min, respectively) and an exhaust tap. When all three taps are opened together, it takes 20 min to fill the empty cistern. How long will the exhaust tap take to empty it ?

- (a) 20 min
- (b) 16 min
- (c) 12 min
- (d) 10 min

Q25. 12 men complete a work in 18 days. Six days after they had started working, 4 men joined them. How many days will all of them take to complete the remaining work ?

- (a) 10 days
- (b) 12 days
- (c) 15 days
- (d) 9 days

Q26. A motor boat whose speed is 15 km/h in still water goes 30 km downstream and comes back in four and a half hours. The speed of the stream is :

- (a) 46 km/h
- (b) 6 km/h
- (c) 7 km/h
- (d) 5 km/h

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Q27. The L.C.M. of two number is 630 and their H.C.F. is 9. If the sum of numbers is 153, their difference is

- (a) 17
- (b) 23
- (c) 27
- (d) 33

Q28. The average age of the family of five members is 24. If the present age of youngest member is 8 yr, then what was the average age of the family at the time of the birth of the youngest member ?

- (a) 20 yr
- (b) 16 yr
- (c) 12 yr
- (d) 18 yr

Q29. A dishonest dealer professes to sell his goods at cost price, but he uses a weight of 960 g for the kg weight. Find his gain percent.

- (a) 4%
- (b) $4\frac{1}{6}$ %
- (c) 96%
- (d) 40%

Q30. A and B started a business by investing 35,000 and 20,000 respectively. B left the business after 5 months and C joined the business with a sum of 15,000. The profit earned at the end of the year is 84,125. What is B's share of profit?

- (a) 14133
- (b) 15,000
- (c) 13,460
- (d) Cannot be determined



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