

Wipro mock-2

Q1. 2 pipes A and B can fill a tank in 20 minutes and 30 minutes respectively. Both pipes are opened. The tank will be filled in just 15 minutes, if the B is turned off after:

- (a) 5 min (b) 6.5 min (c) 7 min (d) 7.5 min

Q2. Solve:

$$\frac{121 \times 121 \times 121 + 353 \times 353 \times 353}{121 \times 121 - 121 \times 353 + 353 \times 353} = ?$$

- (a) 474 (b) 534 (c) 500 (d) 368

Q3. Six bells commence tolling together and toll at intervals of 3, 6, 9, 12, 15 and 18 seconds respectively. In 60 minutes, how many times do they toll together?

- (a) 10 (b) 20 (c) 21 (d) 25

Q4. The sum of a number and the two numbers preceding it is equal to 30. Find the number:

- (a) 10 (b) 11 (c) 9 (d) 8

Q5. The speed of a boat in still water is 4 km/h and the speed of current is 2 km/h. If the time taken to reach a certain distance upstream is 9 hours, the time it will take to go the same distance downstream is

- (a) 3.5 hours (b) 2.5 hours (c) 2 hours (d) 3 hours

Q6. Sanjay invested an amount of Rs 16,000 for two years on compound interest and received an amount of RS 17,640 on maturity. What is the rate of interest per annum?

- (a) 4% (b) 5% (c) 8% (d) Data Inadequate

Q7. Six pipes are fitted to a water tank. Some of these are inlet pipes and the others outlet pipes. Each inlet pipe can fill the tank in 9 hours and each outlet pipe can empty the tank in 6 hours. On opening all the pipes, an empty tank is filled in 9 hours. How many inlet pipes are there?

- (a) 2 (b) 4 (c) 3 (d) 5

Q8. A reservoir is provided by two pipes A and B. A can fill the reservoir 5 hours faster than B. If both together fill the reservoir in 6 hours, the reservoir will be filled by A alone in

- (a) 12 hours (b) 8 hours (c) 10 hours (d) 11 hours

Q9. A dealer buys dry fruits at the rate of ` 100, ` 80 and ` 60 per kg. He bought them in the ratio 12 : 15 : 20 by weight. He in total gets 20% profit by selling the first two and at last he finds he has no gain or no

loss in selling the whole quantity which he had. What was the percentage loss he suffered for the third quantity?

- (a) 30% (b) 40% (c) 20% (d) 50%

Q10. How many kgs of flour worth Rs 25 per kg must be blended with 30 kgs of flour worth Rs 30 per kg so that by selling the blended variety at Rs 30 per kg there should be a gain of 10%?

- (a) 32 kg (b) 40 kg (c) 36 kg (d) 42 kg

Q11. A boat takes 19 hours for travelling downstream from point A to point B and coming back to a point C midway between A and B. If the velocity of the stream is 4 km/h and the speed of the boat in still water is 14 km/h, what is the distance between A and B?

- (a) 200 km (b) 180 km (c) 160 km (d) 220 km

Q12. In a stream running at 2 km/h, a motorboat goes 10 km upstream and back again to the starting point in 55 min. The speed of the motorboat in still water is

- (a) 22 km/h (b) 21 km/h (c) 20 km/h (d) 24 km/h

Q13. A man can row 4.5 km/h in still water and he finds that it takes him twice as long to row up as to row down the river. The speed of the stream is

- (a) 2.5 km/h (b) 1.5 km/h (c) 2 km/h (d) 1.75 km/h

Q14. In an Exhibition seven cars of different companies - Volkswagen, Jaguar, Audi, Maruti, Mercedes, Bedford and Fargo are standing facing to east in the following order : Volkswagen is next to the right of Fargo. Fargo is fourth to the right of Audi. Maruti car is between Jaguar and Bedford. Audi which is third to the left of Jaguar, is at one end. Which of the cars are on both the sides of Volkswagen car ?

- (a) Jaguar and Maruti (b) Maruti and Audi (c) Fargo and Mercedes (d) Jaguar and Fargo

Q15. Yash pointing to a photograph says, "The lady in the photograph is my nephew's maternal grandmother. "How is the lady in the photograph related to the yash's sister who has no other sister?

- (a) Cousin (b) Sister-in-law (c) Mother (d) Mother-in-law (e) None of these

Q16. A child has strayed from his path while coming home from school. He first goes 3km towards south from his school and then moves 5 kms towards east. He again moves 3 kms towards north and then goes 2kms towards west. How far is his school situated from home?

- (a) 3 kms (b) 1 kms (c) 2 kms (d) 8 kms

Q17. Determine the relationship between the first two words and then the second pair such that it is analogous to the first pair. PROGRAM: QTRKWGT :: APPLIANCE:

- (a) BRSPNGUKO (b) BRSQNGUKN (c) BRSONGUKO (d) BRSPNGUKN

Q18. The question consists of a problem question followed by two statements I and II. Find out if the information given in the statement(s) is sufficient in finding the solution to the problem. Problem question: There are four friends, Akash, Manoj, Nitesh and Piyush. They are standing in increasing order of their heights facing towards North At what position is Manoj standing? Statements: I. Akash is taller than Piyush and Piyush is taller than Manoj. Manoj is not the shortest. II. Nitesh is smaller than Manoj and Piyush. Nitesh is the shortest and Piyush is the tallest

- (a) I alone is sufficient while II alone is not sufficient
(b) II alone is sufficient while I alone is not sufficient
(c) Either I or II is sufficient
(d) Neither I nor II is sufficient

Q19. From the given choices select the odd one out?

- (a) ADP (b) QTX (c) HKR (d) STE

Q20. A quiz has one multiple choice question with answer choices A, B and C. and two true/false questions . What is the probability of answering all three questions correctly by guessing?

- (a) $1/5$ (b) $\frac{1}{4}$ (c) $1/3$ (d) $1/12$

Q21. A total profit of Rs. 36,000s to be distributed among Rajesh, Salesh and Rajeev such that profit shares are in the Rajesh : Salesh: 5:4 and Salesh: Rajeev: 8:9. What is the share of Rajeev?

- (a) Rs. 12000 (b) Rs. 24000 (c) Rs. 10000 (d) Rs. 20000

Q22. When 2^{35} is divided by 5, the remainder is

- (a) 2 (b) 3 (c) 4 (d) 1

Q23. That is the value of the expression $5*(2+16)/2-4*(2+2)+1/4$ of 16?

- (a) 26 (b) 13 (c) 34 (d) 33

Q24. In an examination, a candidate is required to answer 5 questions in all, from 2 sections having 5 questions each. What is the total number of ways in which a candidate can select the questions, provided that at least two questions are to be attempted from each section?

- (a) 200 (b) 20 (c) 100 (d) 10

Q25. A pie has to be divided amongst a few kids. Puneet gets $2/7$ th portion of the pie and Sheila gets $5/8$ th portion of the pie. Who amongst the two gets a lesser share?

- (a) Puneet (b) Sheila (c) Both get equal share (d) Cannot be determined

Q26. How many litres of a 90% solution of concentrated acid needs to be mixed with a 75% solution of concentrated acid to get a 30 L solution of 78% concentrated acid?

- (a) 24 litres (b) 22.5 litres (c) 6 litres (d) 17.5 litres

Q27. A bag contains 4 strawberries and 8 grapes. What is the probability that both the fruits drawn from it are strawberries?

- (a) $\frac{1}{3}$ (b) $\frac{1}{11}$ (c) $\frac{3}{11}$ (d) $\frac{1}{10}$

Q28. Atul bought a machine for Rs.4,50,000 and sold it to Irfan at a profit. Irfan later sold the machine to Danish at a loss of 10% for Rs. 495,000. The profit earned by Atul is

- (a) 23.96% (b) 21% (c) 25% (d) 22.22%

Q29. Three empty CD's and 2 pen drives costs Rs.790. Two empty CD's and 3 pen drives cost Rs.1110. What is the cost of one pen drive?

- (a) Rs. 30 (b) Rs. 300 (c) Rs. 25 (d) Rs. 350

Q30. The difference of two numbers is 14. Their LCM and HCF are 441 and 7 respectively. Find the numbers.

- (a) 21, 35 (b) 35, 49 (c) 49, 63 (d) 63, 77

Q31. A scuba diver descends at a rate of 40 feet per minute. A diver dives from a ship to search for a lost ship at the depth of 3000 feet below sea level. How long will he take to reach the ship?

- (a) 70 minutes (b) 72 minutes (c) 75 minutes (d) 76 minutes

Q32. Divide the sum of $\frac{3}{5}$ and $\frac{8}{11}$ by their difference.

- (a) $\frac{7}{73}$ (b) $\frac{73}{7}$ (c) $\frac{11}{15}$ (d) None of these

Directions for questions (33 - 37): The following pie-chart shows the sources of funds to be collected by the National Highways Authority of India (NHAI) for its Phase II projects. Study the pie-chart and answers the question that follow.

Sources of funds to be arranged by NHAI for Phase II projects (in crores Rs.)



Q33. Near about 20% of the funds are to be arranged through:

- (a) SPVS (b) External Assistance (c) Annuity (d) Market Borrowing

Q34. If NHAI could receive a total of Rs. 9695 crores as External Assistance, by what percent (approximately) should it increase the Market Borrowing to arrange for the shortage of funds?

- (a) 4.5% (b) 7.5% (c) 6% (d) 8%

Q35. If the toll is to be collected through an outsourced agency by allowing a maximum 10% commission, how much amount should be permitted to be collected by the outsourced agency, so that the project is supported with Rs. 4910 crores?

- (a) Rs. 6213 crores (b) Rs. 5827 crores (c) Rs. 5401 crores (d) Rs. 5316 crores

Q36. The central angle corresponding to Market Borrowing is

- (a) 52° (b) 137.8° (c) 187.2° (d) 192.4°

Q37. The approximate ratio of the funds to be arranged through Toll and that through Market Borrowing is

- (a) 2 : 9 (b) 1 : 6 (c) 3 : 11 (d) 2 : 5

Q38. The 30 members of a club decided to play a badminton singles tournament. Every time a member loses a game he is out of the tournament. There are no ties. What is the minimum number of matches that must be played to determine the winner ?

- (a) 15 (b) 29 (c) 61 (d) None of these

Q39. A tailor had a number of shirt pieces to cut from a roll of fabric. He cut each roll of equal length into 10 pieces. He cut at the rate of 45 cuts a minute. How many rolls would be cut in 24 minutes?

- (a) 32 rolls (b) 54 rolls (c) 108 rolls (d) 120 rolls

Q40. A and B entered into partnership with capitals in the ratio 4 : 5. After 3 months, A withdrew $\frac{1}{4}$ of his capital and B withdrew $\frac{1}{5}$ of his capital. The gain at the end of 10 months was Rs. 760. A's share in this profit is:

- (a) Rs. 330 (b) Rs. 360 (c) Rs. 380 (d) Rs. 430

Answer key

1	D	9	B	17	D	25	A	33	B
2	A	10	C	18	A	26	C	34	C
3	C	11	B	19	D	27	B	35	C
4	C	12	A	20	D	28	D	36	C
5	D	13	B	21	A	29	D	37	B
6	B	14	C	22	B	30	C	38	B
7	B	15	C	23	D	31	C	39	D
8	C	16	A	24	A	32	B	40	A