

MOCK BHEL PAPER – Downloadable – PDF Format

Section 1: Quantitative Ability (40 questions)

1. A can do a piece of work in 80 days. He works at it for 10 days B alone finishes the remaining work in 42 days. In how much time will A and B working together, finish the work?

- a) 30days b) 40days c) 50days d) 45days

2. Of two numbers, 4 times the smaller one is less than 3 times the larger one by 5. If the sum of the numbers is larger than 6 times their difference by 6, find the two numbers.

- a) 59 & 43 b) 50 & 42 c) 60 & 42 d) 55 & 44

3. How much time will it take for an amount of Rs. 450 to yield Rs. 81 as interest at 4.5% per annum of simple interest?

- A. 3.5 years B. 4 years C. 4.5 years D. 5 years

4. A, Band C enter into partnership. A invests 3 times as much as Band B invests two-third of what C invests. At the end of the year, the profit earned is Rs. 6600. What is the share of B?

- a) Rs.1250 b) Rs.1300 c) Rs.1100 d) Rs.1200

5. A boat can travel with a speed of 13 km/hr in still water. If the speed of the stream is 4 km/hr, find the time taken by the boat to go 68 km downstream.

- A.2 hours B. 3 hours C. 4 hours D. 5 hours

6. If you drive at an average speed of 50 mph for the first two hours and at an average speed of 20 mph for the next three hours, what will be your average speed during the five hour trip?

- a) 160 mph b) 40 mph c) 30 mph d) 32 mph

7. In a school of 320 students, 85 students are in the band, 200 students are on sports teams, and 60 students participate in both activities. How many students are involved in either band or sports?

- a) 225 b) 320 c) 230 d) 325

8. If a job takes 12 men 4 hours to complete, how long should it take 15 men to complete the job?

- a) 3 hours b) 3 hours 30 minutes c) 3 hours 20 minutes d) 3 hours 12 minutes

9. A motorcycle costs Rs.25, 000 when it is brand new. AT the end of each year it is worth $\frac{4}{5}$ of what it was worth at the beginning of the year. What is the value of the motorcycle when it is three years old?

- a) Rs.12,800 b) Rs.14,300 c) Rs.11,760 d) Rs.13,620

10. The Shatabdi Express takes three hours less than the Hyderabad passenger for a journey of 600 km from Bangalore. If the speed of the passenger is 10 kmph less than that of the Shatabdi Express then the speeds of the two trains are...

- a) 30 and 40 kmph respectively b) 40 and 50 kmph respectively
c) 50 and 60 kmph respectively d) 60 and 70 kmph respectively

11. A train 800 metres long is running at a speed of 78 km/hr. If it crosses a tunnel in 1 minute, then the length of the tunnel (in meters) is?

- (a) 130 (b) 360 (c) 500 (d) 540

12. If a person walks at 14 km/hr instead of 10 km/hr, he would have walked 20 km more. The actual distance travelled by him is?

(a) 50 km (b) 56 km (c) 70 km (d) 70 km

13. In a lottery, there are 10 prizes and 25 blanks. A lottery is drawn at random. What is the probability of getting a prize?

(a) $\frac{1}{10}$ (b) $\frac{2}{5}$ (c) $\frac{2}{7}$ (d) $\frac{5}{7}$

14. A lent Rs. 5000 to B for 2 years and Rs. 3000 to C for 4 years on simple interest at the same rate of interest and received Rs. 2200 in all from both of them as interest. The rate of interest per annum is

(a) 5% (b) 7% (c) 8% (d) 10%

15. Two students appeared at an examination. One of them secured 9 marks more than the other and his marks was 56% of the sum of their marks. The marks obtained by them are?

(a) 39, 30 (b) 41, 32 (c) 42, 33 (d) 43, 34

16. Two, trains, one from Howrah to Patna and the other from Patna to Howrah, start simultaneously. After they meet, the trains reach their destinations after 9 hours and 16 hours respectively. The ratio of their speeds is:

(a) 2 : 3 (b) 4 : 3 (c) 6 : 7 (d) 9 : 16

17. In a bag, there are coins of 25 p, 10 p and 5 p in the ratio of 1 : 2 : 3. If there is Rs. 30 in all, how many 5 p coins are there?

(a) 50 (b) 100 (c) 150 (d) 200

18. A man completes a journey in 10 hours. He travels first half of the journey at the rate of 21 km/hr and second half at the rate of 24 km/hr. Find the total journey in km.

(a) 220 km (b) 224 km (c) 230 km (d) 234 km

19. The average monthly income of P and Q is Rs. 5050. The average monthly income of Q and R is Rs. 6250 and the average monthly income of P and R is Rs. 5200. The monthly income of P is?

(a) 3500 (b) 4000 (c) 4050 (d) 5000

20. Seats for Mathematics, Physics and Biology in a school are in the ratio 5 : 7 : 8. There is a proposal to increase these seats by 40%, 50% and 75% respectively. What will be the ratio of increased seats?

(a) 2 : 3 : 4 (b) 6 : 7 : 8 (c) 6 : 8 : 9 (d) None of these

21. In how many different ways can the letters of the word 'LEADING' be arranged in such a way that the vowels always come together?

(a) 360 (b) 480 (c) 720 (d) 5040

22. In a 100 m race, A can beat B by 25 m and B can beat C by 4 m. In the same race, A can beat C by:

(a) 21 m (b) 26 m (c) 28 m (d) 29 m

23. In what ratio must a grocer mix two varieties of pulses costing Rs. 15 and Rs. 20 per kg respectively so as to get a mixture worth Rs. 16.50 kg?

(a) 3 : 7 (b) 5 : 7 (c) 7 : 3 (d) 7 : 5

24. Excluding stoppages, the speed of a bus is 54 kmph and including stoppages, it is 45 kmph. For how many minutes does the bus stop per hour?

(a) 9 (b) 10 (c) 12 (d) 20

25. Six years ago, the ratio of the ages of Kunal and Sagar was 6 : 5. Four years hence, the ratio of their ages will be 11 : 10. What is Sagar's age at present?

(a) 16 years (b) 18 years (c) 20 years (d) None of these

26. A fruit seller had some apples. He sells 40% apples and still has 420 apples. Originally, he had?

(a) 588 (b) 600 (c) 672 (d) 700

27. A library has an average of 510 visitors on Sundays and 240 on other days. The average number of visitors per day in a month of 30 days beginning with a Sunday is?

(a) 250 (b) 276 (c) 280 (d) 285

28. Twenty women can do a work in sixteen days. Sixteen men can complete the same work in fifteen days. What is the ratio between the capacity of a man and a woman?

(a) 3 : 4 (b) 4 : 3 (c) 5 : 3 (d) None of these

29. A jar full of whisky contains 40% alcohol. A part of this whisky is replaced by another containing 19% alcohol and now the percentage of alcohol was found to be 26%. The quantity of whisky replaced is:

(a) $\frac{1}{3}$ (b) $\frac{2}{3}$ (c) $\frac{2}{5}$ (d) $\frac{3}{5}$

30. A alone can do a piece of work in 6 days and B alone in 8 days. A and B undertook to do it for Rs. 3200. With the help of C, they completed the work in 3 days. How much is to be paid to C?

(a) Rs. 375 (b) Rs. 375 (c) Rs. 600 (d) Rs. 800

31. A shopkeeper expects a gain of 22.5% on his cost price. If in a week, his sale was of Rs. 392, what was his profit?

(a) Rs. 18.20 (b) Rs. 70 (c) Rs. 72 (d) Rs. 88.25

32. How many seconds will a 500 meter long train take to cross a man walking with a speed of 3 km/hr in the direction of the moving train if the speed of the train is 63 km/hr?

(a) 25 (b) 30 (c) 40 (d) 45

33. The sum of three numbers is 98. If the ratio of the first to second is 2 : 3 and that of the second to the third is 5 : 8, then the second number is:

(a) 20 (b) 30 (c) 48 (d) 58

34. A man complete a journey in 10 hours. He travels first half of the journey at the rate of 21 km/hr and second half at the rate of 24 km/hr. Find the total journey in km.?

(a) 220 km (b) 224 km (c) 230 km (d) 234 km

35. Sam purchased 20 dozens of toys at the rate of Rs. 375 per dozen. He sold each one of them at the rate of Rs. 33. What was his percentage profit?

(a) 3.5 (b) 4.5 (c) 5.6 (d) 6.5

36. A car travels a certain distance taking 7 hrs in forward journey, during the return journey increased speed 12km/hr takes the times 5 hrs. What is the distance travelled?

(a) 210 kms (b) 30 kms (c) 20 kms (d) none of these

37. If the wheel of a bicycle makes 560 revolutions in travelling (a) 1 km, what is its radius?

(a) 3(a)25 cm (b) 3(c)25 cm (c) 3(b)25 cm (d) 30.25 cm

38. After three years, father's age will be ten years more than twice the son's age. What is the father's present age?

(a) 33 years. (b) 22years. (c) 44years. (d) 34years.

39. A train of length 150 metres takes 40.5 seconds to cross a tunnel of length 300 metres. What is the speed of the train in km/hr?

- (a) 1(c)33 (b) 26.67 (c) 40 (d) 66.67

40. The average age of a class is 15.8 years. The average age of boys in the class is 16.4 years while that of girls is 15.4 years. What is the ratio of boys to girls in the class?

- (a) 1:2 (b) 3:4 (c) 3:5 (d) None of these

Section 2: Logical reasoning (40 questions)

1. Deepak said to Nitin, "That boy playing with the football is the younger of the two brothers of the daughter of my father's wife." How is the boy playing football related to Deepak?

- A. Son B. Brother C. Cousin D. Brother-in-law

2. Pointing to a woman, Abhijit said, "Her granddaughter is the only daughter of my brother." How is the woman related to Abhijit?

- A. Sister B. Grandmother C. Mother-in-law D. Mother

3. A and B are children of D. Who is the father of A? To answer this question which of the statements (1) and (2) is necessary?

C is the brother of A and the son of E.
F is the mother B.

- A. Only (1) B. Only (2) C. Either (1) or (2) D. (1) and (2) both

4. If $P \$ Q$ means P is the brother of Q; $P \# Q$ means P is the mother of Q; $P * Q$ means P is the daughter of Q in $A \# B \$ C * D$, who is the father?

- A. D B. B C. C D. Data is inadequate

5. Introducing a woman, Shashank said, "She is the mother of the only daughter of my son." How that woman is related to Shashank?

- A. Daughter B. Sister-in-law C. Wife D. Daughter-in-law

6. Pointing to a person, Deepak said, "His only brother is the father of my daughter's father". How is the person related to Deepak?

- A. Father B. Grandfather C. Uncle D. Brother-in-law

7. Pointing to Gopi, Nalni says, "I am the daughter of the only son of his grandfather." How Nalni is related to Gopi?

- A. Niece B. Daughter C. Sister D. Cannot be determined

8. Pointing to a girl Sandeep said, "She is the daughter of the only sister of my father." How is sandeep related to the girl?

- A. Uncle B. Cousin C. Father D. Grandfather

9. A man walks 5 km toward south and then turns to the right. After walking 3 km he turns to the left and walks 5 km. Now in which direction is he from the starting place?

- A. West B. South C. North-East D. South-West

10. Rahul put his timepiece on the table in such a way that at 6 P.M. hour hand points to North. In which direction the minute hand will point at 9.15 P.M.?

- A. South-East B. South C. North D. West

11. If in a certain language, ENTRY is coded as 12345 and STEADY is coded as 931785, then TENANT will be coded as

a) 956169 b) 196247 c) 352123 d) 312723

12. In a code, CORNER is written as GSVRIV. How can CENTRAL be written in that code?

a) DFOUSBM b) GIRXVEP c) GNFJKER d) None of these

13. Amit said - "This girl is the wife of the grandson of my mother". How is Amit related to the girl?

a) Brother b) Grandfather c) Husband d) Father-in-law

Directions for question 14 - 18: There is a five storey building including the ground floor and each floor has only one flat. All these flats have been occupied by the five Bank Probationary Officers. Each officer owns a different car. The cars are: Indica, Ikon, Indigo, Elentra and Santro. The five officers :A, B, X, Y and Z are employed in the different banks, viz., State Bank of India (SBI), Punjab National Bank (PNB), UCO Bank, ICICI Bank and HDFC Bank but not necessarily in the same order. Mr. X works in HDFC Bank and lives on the ground floor. The officer who lives on fourth (top) floor does not own Elentra or Santro.

Mr. B works in PNB and owns Elentra car. The officer who works in UCO Bank and lives on second floor owns Indica car. Mr. Y lives on third floor and owns Indigo. Mr. Z works in ICICI Bank and Mr. Y works in State Bank of India. Use the information for answering the following questions

14. Who among the following owns Santro car?

a) A b) B c) X d) None of these

15. Who lives on the second floor?

a) X b) Y c) Z d) A

16. On which floor does B lives?

a) First b) Second c) Third d) Fourth

17. Which among the following owns Indica car?

a) X b) A c) Y d) B

18. Which among the following of the combination of officer and car is correct?

a) Mr. X -----Elantara b) Mr. Y -----Ikon c) Mr.Z----- Ikon d) Mr. A-----
Santro

Directions for question 19 - 22: Once, Mrs. Singh, Mrs.Mahajan, Mrs. Kumar and Mrs. Sharma went shopping together, each with two activities to perform. One of the women had to visit the hardware shop, two needed to go to the bank, two needed to go to the butcher shop, and all but one needed to buy groceries. Their shopping was simplified quite a bit by the fact that they lived in a small town which had only one store of each kind and only one bank. As a result they were soon done and on their way home if:

Archana didn't go into the grocery store Both Isha and Mrs. Sharmabought meat.

Tanya came home with more money then she had when she started.

Mrs.Mahajan didn't go into any of the places where Ritu or Mrs. Kumar went. Answer the following question based on the above information.

19. Who did not go to the grocery store?

a) Mrs. Singh b) Mrs.Mahajan c) Mrs. Kumar d) Mrs. Sharma

20. What is the first name of Mrs.Kumar

- a) Archana b) Tanya c) Isha d) Can't be determined

21. Which two places are visited by Mrs. Singh?

- a) Grocery and Meat b) Hardware and Meat c) Grocery and Bank d) Meat and Bank

22. Suresh is taller than Prabhu but shorter than Ram, Prabhu is as tall as Neeraj but taller than Nilesh. Which of the following statements is definitely true for Neeraj?

- a) Neeraj is shorter than Nilesh b) Neeraj is the tallest
c) Neeraj is the shortest d) Neeraj is taller than Nilesh

DIRECTIONS for questions 23 to 27: K, L, M, N, P, Q, R, S, U and W are the only ten members in a department. There is a proposal to form a team from within the members of the department, subject to the following conditions:

- A team must include exactly one among P, R, and S. A team must include either M or Q, but not both.
- If a team includes K, then it must also include L, and vice versa.
- If a team includes one among S, U, and W, then it must also include the other two.
- L and N cannot be members of the same team.
- L and U cannot be members of the same team.
- The size of a team is defined as the number of members in the team.

23. What could be the size of a team that includes K?

- A. 2 or 3 B. 2 or 4 C. 3 or 4 D. Only 4

24. In how many ways a team can be constituted so that the team includes N?

- A. 2 B. 3 C. 4 D. 6

25. What would be the size of the largest possible team?

- A. 8 B. 7 C. 6 D. 5

26. Who can be a member of a team of size 5?

- A. K B. L C. M D. P

27. Who cannot be a member of a team of size 3?

- A. L B. M C. N D. P

28. If in a certain code 'RANGE' is coded as 12345 and 'RANDOM' is coded as 123678, then the code for the word 'MANGO' would be

- A. 82543 B. 82346 C. 84563 D. 82357

29. Which word does NOT belong with the others?

- A. leopard B. cougar C. elephant D. lion

30. Arrange the words given below in a meaningful sequence.

1. Wall 2. Clay 3. House 4. Room 5. Bricks

- A. 5, 2, 1, 4, 3 B. 2, 5, 4, 1, 3 C. 2, 5, 1, 4, 3 D. 1, 2, 3, 4, 5

31. Arrange the words given below in a meaningful sequence.

1. Yarn 2. Plant 3. Saree 4. Cotton 5. Cloth

- A. 2, 4, 5, 1, 3 B. 2, 4, 3, 5, 1 C. 2, 4, 1, 5, 3 D. 2, 4, 5, 3, 1

Direction for questions 32 to 35: Choose the correct alternative that will continue the same pattern and replace the question mark in the given series.

32. 9, 27, 31, 155, 161, 1127, ?

A. 316 B. 1135 C. 1288 D. 2254

33. 2, 1, 2, 4, 4, 5, 6, 7, 8, 8, 10, 11, ?

A. 9 B. 10 C. 11 D. 12

34. 563, 647, 479, 815, ?

A. 672 B. 386 C. 279 D. 143

35. 28, 33, 31, 36, ?, 39

A. 32 B. 34 C. 38 D. 40

36. A, B, C, D and E are sitting on a bench. A is sitting next to B, C is sitting next to D, D is not sitting with E who is on the left end of the bench. C is on the second position from the right. A is to the right of B and E. A and C are sitting together. In which position A is sitting?

A. Between B and D B. Between B and C C. Between E and D D. Between C and E

Direction for questions 37 to 40: Five girls are sitting on a bench to be photographed. Seema is to the left of Rani and to the right of Bindu. Mary is to the right of Rani. Reeta is between Rani and Mary.

37. Who is sitting immediate right to Reeta?

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A. Bindu B. Rani C. Mary D. Seema

38. Who is in the middle of the photograph?

A. Bindu B. Rani C. Reeta D. Seema

39. Who is second from the right?

A. Mary B. Rani C. Reeta D. Bindu

40. Who is second from the left in photograph?

A. Reeta B. Mary C. Bindu D. Seema

