

**BHEL Engineer Trainee Reasoning Question Paper**

1. If the following numbers are rewritten by interchanging the digits in ten's place and hundred's place and then arranging them in the descending order. What will be the second digit of the newly formed fifth number from your right ?

479, 736, 895, 978, 389, 675

(A) 3

(B) 4

(C) 5

(D) 6

Ans : (C)

2. P is 60 m South-East of Q. R is 60 m North-East of Q. Then R is in which direction of P ?

(A) North

(B) North-East

(C) South

(D) South-East

Ans : (A)

Directions—(Q. 3–5) Read the following information for answering the questions that follow—  
On a playing ground A, B, C, D and E are standing as described below facing the North.

(i) B is 50 metres to the right of D.

(ii) A is 60 metres to the South of B

(iii) C is 40 metres to the West of D.

(iv) E is 80 metres to the North of A.

3. If a boy walks from C, meets D followed by B, A and then E, how many metres has he walked if he has travelled the straight distance all through ?

(A) 120

(B) 150

(C) 170

(D) 230

Ans : (D)

4. What is the minimum distance (in metre approximately) between C and E ?

(A) 53

(B) 78

(C) 92

(D) 120

Ans : (C)

5. Who is to the South-East of the person who is to the left of D ?

- (A) A
- (B) B
- (C) C
- (D) E

Ans : (A)

6. A man was walking in the evening just before the sun set. His wife said that, his shadow fell on his right. If the wife was walking in the opposite direction of the man, then which direction the wife was facing ?

- (A) North
- (B) West
- (C) South
- (D) East

Ans : (C)

Directions—(Q. 7–11) In each of the following questions choose the set of numbers from the four alternative sets that is similar to the given set.

7. Given set : (4, 9, 18)

- (A) (8, 14, 22)
- (B) (10, 15, 25)
- (C) (6, 12, 23)
- (D) (12, 17, 26)

Ans : (D)

8. Given set : (10, 14, 17)

- (A) (4, 11, 14)
- (B) (9, 12, 15)
- (C) (8, 13, 18)
- (D) (6, 9, 12)

Ans : (A)

9. Given set : (7, 27, 55)

- (A) (21, 35, 52)
- (B) (18, 42, 65)
- (C) (16, 40, 72)
- (D) (13, 30, 58)

Ans : (C)

10. Given set : (39, 28, 19)

- (A) (84, 67, 52)
- (B) (52, 25, 17)
- (C) (70, 49, 36)
- (D) (65, 45, 21)

Ans : (A)

11. Given set : (246, 257, 358)

- (A) (233, 343, 345)
- (B) (273, 365, 367)
- (C) (143, 226, 237)
- (D) (145, 235, 325)

Ans : (A)

Directions—(Q. 12–16) Each question contains six or seven statements followed by four sets of combinations of three. Choose the set in which the statements are logically related.

12. (1) All books are having pages.  
(2) All kings are having pages.  
(3) All kings are books.  
(4) Some heavy things are having pages.  
(5) Some heavy things are books.  
(6) Some books are heavy.  
(7) Some heavy things are having pages.

- (A) 1, 2, 3
- (B) 6, 1, 4
- (C) 4, 6, 1
- (D) 1, 5, 7

Ans : (D)

13. (1) No athletes are vegetarians.  
(2) All cricket players are athletes.  
(3) Some athletes play cricket.  
(4) Some cricket players are vegetarians.  
(5) No cricket player is a vegetarian.  
(6) All athletes are vegetarians.

- (A) 1, 2, 5
- (B) 3, 4, 1
- (C) 1, 5, 2
- (D) 2, 5, 6

Ans : (A)

14. (1) All grandmothers cook well.

- (2) No man is a grandmother.
- (3) Some men do not cook well.
- (4) All those who cook well are men.
- (5) No one who cooks well is a man.
- (6) All those who cook well are grandmothers.
- (7) Some men are not grandmothers.

- (A) 2, 6, 5
- (B) 2, 5, 6
- (C) 1, 4, 2
- (D) 6, 4, 7

Ans : (B)

15. (1) Looting is a crime.
- (2) Some crooked people are criminals.
  - (3) All those involved in looting are criminals.
  - (4) Some crooked people are involved in looting.
  - (5) All criminals are looked down in society.
  - (6) Some crooked people are not criminals.

- (A) 1, 4, 6
- (B) 3, 6, 2
- (C) 1, 2, 6
- (D) 3, 4, 2

Ans : (D)

16. (1) Some women are those who are successful in life.
- (2) Some men are those who have patience.
  - (3) No man is a woman.
  - (4) All those who have patience are successful in life.
  - (5) Some who are successful in life are men.
  - (6) Some men are not those are successful in life.

- (A) 1, 3, 6
- (B) 4, 2, 6
- (C) 1, 5, 3
- (D) 2, 4, 5

Ans : (B)

Directions—(Q. 17–21) Each of the questions below consists of a question and two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Give answers—

- (A) If the data in statement (I) alone are sufficient to answer the question, while the data in statement (II) alone are not sufficient to answer the question;
- (B) If the data in statement (II) alone are sufficient to answer the question, while the data in statement

- (I) alone are not sufficient to answer the questions;  
(C) If the data even in both statements (I) and (II) together are not sufficient to answer the question;  
(D) If the data in both statement (I) and (II) together are necessary to answer the question.

17. In which direction is Mahatmaji's statue facing ?

- I. The statue is towards the northern end of the city.  
II. The statue's shadow falls towards East at 5 O'clock in the evening.

Ans : (C)

18. What is the total number of pupils in the final year class ?

- I. The number of boys in the final year class is twice as much as the number of girls in that class.  
II. The sum of the ages of all the pupils in the class is 399 years and their average age is 19 years.

Ans : (B)

19. Who is the tallest among A, B, C and D ?

- I. A is taller than C.  
II. B is taller than C and D.

Ans : (C)

20. How many Sundays are there in a particular month of a particular year ?

- I. The month begins on Monday.  
II. The month ends on Wednesday.

Ans : (D)

21. What is the total number of pages in this book ?

- I. I counted 132 pages from the beginning of this book.  
II. My wife counted 138 pages starting from the end of the same book.

Ans : (C)

Directions—(Q. 22–26) In each of the questions given below, there is a statement followed by three assumptions numbered I, II and III. An assumption is something supposed or taken for granted. You have to consider the statement and assumptions and then decide, which of the assumption(s) is/are implicit in the statement.

22. Statement : During pre-harvest kharif seasons, the government has decided to release vast quantity of foodgrains from FCI.

Assumptions : I. There may be a shortage of foodgrains in the market during this season.

II. The kharif crop may be able to replenish the stock of FCI.

III. There may be a demand from the farmers to procure kharif crop immediately after harvest.

(A) None is implicit

(B) Only I and II are implicit

(C) Only II and III are implicit

(D) All are implicit

Ans : (D)

23. Statement : To improve the employment situation in India, there is a need to recast the present educational system towards implementation of scientific discoveries in daily life.

Assumptions :I. The students after completing such education may be able to earn their livelihood.

II. This may bring meaning of education in the minds of the youth.

III. The state may earn more revenue as more and more people will engage themselves in self employment.

(A) Only I and II are implicit

(B) Only III is implicit

(C) Only I and III are implicit

(D) None is implicit

Ans : (A)

24. Statement : To increase profit, the oil exporting countries decided to reduce the production of crude by 5 million barrels per day.

Assumptions :I. The price of crude may increase due to less production.

II. The demand of crude may remain same in future.

III. Other countries may continue buying crude from these countries.

(A) All are implicit

(B) Only II and III are implicit

(C) Only I and II are implicit

(D) None is implicit

Ans : (C)

25. Statement : “We do not want you to see our product on newspaper, visit our shop to get a full view.” – an advertisement.

Assumptions :I. People generally decide to purchase any product after seeing the name in the advertisement.

II. Uncommon appeal may attract the customers.

III. People may come to see the product.

(A) All are implicit

(B) None is implicit

(C) Only II and III are implicit

(D) Only I and II are implicit

Ans : (A)

1. What should come in the place of (?) in the given series?

ACE, FGH, ?, PON

(A) KKK

(B) JKI

- (C) HJH
  - (D) IKL
- Ans. (A)

2. Typist : Typewriter : : Writer: ?

- (A) Script
  - (B) Pen
  - (C) Paper
  - (D) Book
- Ans. (B)

3. Paint: Artist : : Wood: ?

- (A) Furniture
  - (B) Forest
  - (C) Fire
  - (D) Carpenter
- Ans. (D)

4. acme : mace :: alga: ?

- (A) glaa
  - (B) gaal
  - (C) laga
  - (D) gala
- Ans. (D)

5. EIGHTY : GIEYTH : : OUTPUT:?

- (A) UTOPTU
  - (B) UOTUPT
  - (C) TUOUTP
  - (D) TUOTUP
- Ans. (D)

6. 'Medicine' is related to 'Patient' in the same way as 'Education' is related to—

- (A) Teacher
  - (B) School
  - (C) Student
  - (D) Tuition
- Ans. (C)

7. Fill in the missing letter in the following series—

- S, V, Y, B, ?
- (A) C

- (B) D
  - (C) E
  - (D) G
- Ans. (C)

8. What should come in the place of question mark in the following series?

3, 8, 6, 14, ?, 20

- (A) 11
- (B) 10
- (C) 8
- (D) 9

Ans. (D)

9. Select the correct option in place of the question mark.

AOP, CQR, EST, GUV, ?

- (A) IYZ
- (B) HWX
- (C) IWX
- (D) JWX

Ans. (C)

10. What should come in the place of question mark in the following series?

1, 4, 9, 25, 36, ?

- (A) 48
- (C) 52
- (B) 49
- (D) 56

Ans. (B)

Directions—(Q. 11 to 14): Select the one which is different from the other three.

- 11. (A) Bokaro
- (B) Jamshedpur
- (C) Bhilai
- (D) Agra

Ans. (D)

- 12. (A) January
- (B) February
- (C) July
- (D) December

Ans. (B)



13. (A) Bible  
(B) Panchsheel  
(C) Geeta  
(D) Quran  
Ans. (B)

14. (A) Star  
(B) Sun  
(C) Sky  
(D) Moon  
Ans. (C)

Directions—(Q. 15 to 17): based on alphabets.

15. If the sequence of the alphabets is reversed which of the following would be the 14th letter from your left?

- (A) N  
(B) L  
(C) O  
(D) None of these  
Ans. (D)

16. Which letter is the 8th letter to the right of the letter, which is 12th from the left?

- (A) V  
(B) T  
(C) W  
(D) Y  
Ans. (B)

17. Which letter is the 8th letter to the right of the letter which is 10th to the left of the last but one letter from the right?

- (A) V  
(B) X  
(C) W  
(D) I  
Ans. (C)

Directions—(Q. 18 to 23) Three of the following four are alike in a certain way and so form a group. Which is the one that does not belong to that group?

18. (A) Green  
(B) Red  
(C) Colour  
(D) Orange  
Ans. (C)

19. (A) Rabbit  
(B) Crocodile  
(C) Earthworm  
(D) Snail

Ans. (A)

20. (A) Polo  
(B) Chess  
(C) Ludo  
(D) Carrom

Ans. (A)

21. (A) Sun  
(B) Universe  
(C) Moon  
(D) Star

Ans. (B)

22. (A) Cheese  
(B) Milk  
(C) Curd  
(D) Ghee

Ans. (B)

23. (A) Carrot  
(B) Radish  
(C) Potato  
(D) Brinjal

Ans. (D)

24. In a certain code 'CONTRIBUTOR' is written as 'RTNOCIROTUB'. How is 'prohibition' written in that code?

- (A) NOITIBIHORP  
(B) IHORPBITION  
(C) ITIONBIHOTP  
(D) IHORPBNOITI

Ans. (D)

25. If 'CAT' and 'BOAT' are written as XZG and 'YLZG' respectively in a code language how is 'EGG' to be written in the same language?

- (A) VSS

(B) URR

(C) VTT

(D) UTF

Ans. (C)