

IBM Mock-1

Q1. Mahesh lends 40% of his money at 15% per annum, 50% of the rest at 10% per annum and the rest at 18% per annum rate of interest. What would be the annual rate of interest, if the interest is calculated on the whole sum?

- (a) 14.4% (b) 16.5% (c) 18.5% (d) 19.5% (e) None of the Above

Q2. Find the 4-digit smallest number which when divided by 12, 15, 25, 30 leaves no remainder?

- (a) 1800 (b) 1020 (c) 1120 (d) 1200 (e) None of these

Q3. A, B, and C can alone complete a work in 10, 12 and 15 days respectively. All started the work but B left the work 3 days before completion. How much work was then done by A and B together in the total work?

- (a) $\frac{2}{3}$ (b) $\frac{3}{4}$ (c) $\frac{1}{3}$ (d) $\frac{3}{5}$ (e) $\frac{2}{5}$

Q4. A sum of money is to be distributed among A, B, C, D in the proportion of 5: 2: 4 : 3. If C gets Rs. 1000 more than D, what is B's share?

- (a) Rs. 500 (b) Rs. 1500 (c) Rs. 2000 (d) None of these

Q5. Two different numbers, when divided by the same divisor, leaves remainder 7 and 9 respectively. When their sum is divided by the same divisor remainder was 4. Find the divisor?

- (a) 13 (b) 14 (c) 11 (d) 12 (e) None of these

Q6. Solve $1781.90 \div 54.20 + 456.13 - 2345.80 \times 0.98 = ? \times 2$

- (a) 988 (b) -876 (c) -928 (d) -675 (e) None of these

Q7. Solve $24.95\% \text{ of } 797.07 \div 19.05 = 54.88 - ?$

- (a) 36 (b) 47 (c) 63 (d) 45 (e) None of these

Q8. Two varieties of juice are mixed in the ratio of 4:5. The price of 1st variety juice is Rs.14 per liter while the second variety is Rs.17 per liter. Find the average price of the mixture?

- (a) Rs.15.03 (b) Rs.15.67 (c) Rs.16.78 (d) Rs.17.43 (e) None of these

Q9. The average expenditure of Sharma for January to June is Rs. 4200 and he spent Rs. 1200 in January and Rs.1500 in July. The average expenditure for the months of February to July is:

- (a) 4250 (b) 4500 (c) 3500 (d) 2750 (e) 3250

Q10. A jar containing 60litres of the mixture of milk and water. The respective ratio of milk and water in the ratio 7:5. From the jar 12litres of the mixture was taken out and 6 liters of pure milk was added. What is the respective ratio of milk and water after the final operation?

(a) 12:17 (b) 13:19 (c) 9:7 (d) 17:10 (e) None of these

Q11. Venkat lends Rs 30,000 of two of his friends. He gives Rs 15,000 to the first at 6% p.a. simple interest. He wants to make a profit of 10% on the whole. The simple interest rate at which he should lend the remaining sum of money to the second friend is

(a) 16% (b) 12% (c) 14% (d) 8% (e) None of the Above

Q12. Three pipes A, B and C can fill a cistern in 6 hours. After working at it together for 2 hours, C is closed and A and B can fill the remaining part in 6 hours. The number of hours taken by C alone to fill the cistern is

(a) 12 hours (b) 10 hours (c) 18 hours (d) 8 hours (e) None of these

Q13. Two pipes A and B can fill a tank in 6 hours and 5 hours respectively. If they are turned on alternatively for 1 hour each, find the time in which the tank is full.

(a) 4hrs 30min (b) 5hrs (c) 6hrs 25min (d) 5hrs 30min (e) None of these

Q14. Veera Reddy sold 10 sarees for a total profit of Rs. 460 and 12 sarees for a total profit of Rs. 144. At what profit per saree should he sell the remaining 20 sarees so that he gets an average profit of Rs. 18 per sarees?

(a) Rs 7.10 (b) Rs 7.60 (c) Rs 7.99 (d) Rs 8

Q15. A retailer buys 40 pens at the market price of 36 pens from a wholesaler. If he sells these pens giving a discount of 1%, what is the profit percent?

(a) 22% (b) 25% (c) 26% (d) 10%

Q16. The numerator of a rational number is 4 less than the denominator. If the numerator is increased by 15 and denominator is decreased by 4, we get 6. Find a rational number?

(a) 1/5 (b) 2/7 (c) 3/7 (d) 5/9 (e) None of these

Q17. When a number is added to 20 percent of the second number, we get 150 percent of the second number. Find the ratio between the first and second number?

(a) 13:9 (b) 12:10 (c) 13:10 (d) 17:10 (e) None of these

Q18. It cost a college Rs.0.70 a copy to produce a Program for the homecoming football game. If Rs.15,000/- was received for advertisements in the program, how many copies at Rs.0.50 a copy must be sold to make a profit of Rs.8000/-?

(a) 35000 (b) 40000 (c) Data inadequate (d) None of these

Q19. In a certain company, 20% of the men and 40% of the women attended the annual company picnic. If 35% of all the employees are man, what percent of all the employees went to the picnic?

(a)30% (b) 31% (c) 32% (d) 33%

Q20. The dimensions of a certain machine are 48" X 30" X 52". If the size of the machine is increased proportionately until the sum of its dimensions equals 156", what will be the increase in the shortest side?

- (a) 4 (b) 5 (c) 6 (d) None of these

Q21. In a team of 12 persons, $\frac{1}{3}$ are women and $\frac{2}{3}$ are men. To obtain a team with 20% women how many men should be hired?

- (a) 6 (b) 8 (c) 15 (d) None of these

Q22. A tape manufacturer reduces the price of his heavy duty tape from Rs.30/- to Rs.28/- a reel and the price of a regular tape from Rs.24/- to Rs.23/- a reel. A computing centre normally spends Rs.1440/- a month for tapes and $\frac{3}{4}$ of this is for heavy duty tapes. How much will they save a month under the new prices?

- (a) Rs. 53 (b) Rs. 78 (c) Rs. 80 (d) None of these

Q23. Find wrong number in series:

2, 7, 10, 22, 18, 37, 26, 46

- (a) 10 (b) 18 (c) 26 (d) 46

Q24. Find wrong number in series:

4, 12, 48, 240, 1240, 10080

- (a) 12 (b) 240 (c) 1240 (d) 10080

Directions to solve Question 25 and 26: Each of the questions given below consists of a statement and/or a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statement(s) is/are sufficient to answer the given question.

Read both the statements and Give answer

- (a) if the data in Statement I alone is sufficient to answer the question, while the data in Statement II alone is 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 is not sufficient to answer the question.
(c) if the data in each Statement I and Statement II alone are sufficient to answer the question.
(d) if the data even in both Statements I and II together are not sufficient to answer the question.
(e) if the data in both Statements I and II together are necessary to answer the question.

Q25. Is $x - y$ is greater than $u - v$?

I) $x > u$ and $y < v$

II) $y = 8$, $v = 9$, $x = 15$ and $u = 13$.

- (a) A (b) B (c) C (d) D

Q26. In which year X was born?

Statement I. X is 30 years younger than his mother

Statement II. Rahul's 2 years elder brother was born in 1973

- (a) A (b) B (c) C (d) D (e) E

Q27. Consider the following phrase:

Statement: Some C are T

Some T are R

All R are M

Conclusions:

I. Some M are T

II. Some C are M

Choose the correct option given below:

- (a) only conclusion I is true.
- (b) only conclusion II is true.
- (c) either conclusion I or conclusion II is true
- (d) neither conclusion I nor conclusion II is true
- (e) both conclusions I and II are true.

Q28. Consider the following phrase:

Statement: Change is the law of nature

Assumptions:

I. Everything in nature changes eventually

II. Nothing is permanent in this world

Choose the correct option given below.

- (a) If only assumption I is implicit
- (b) If only assumption II is implicit.
- (c) If either I or II is implicit.
- (d) If neither I nor II is implicit.
- (e) If both I and II are implicit.

Q29. Consider the following phrase:

Statement: The Delhi-Meerut Expressway will reduce the time of journey by hours.

Assumptions:

I. The Delhi-Meerut Expressway is a good thing for public

II. The Delhi-Meerut Expressway will save a lot of fuel and money.

Choose the correct option given below.

- (a) If only assumption I is implicit
- (b) If only assumption II is implicit.
- (c) If either I or II is implicit.
- (d) If neither I nor II is implicit.
- (e) If both I and II are implicit.

Q30. **Statements:**

I. – Some S are L II. – Some C are P III. – All P is R

Conclusions:

I. Some P are L II. Some C are R

Choose the correct option given below:

- (a) only conclusion I is true.
- (b) only conclusion II is true.
- (c) either conclusion I or conclusion II is true
- (d) neither conclusion I nor conclusion II is true
- (e) both conclusions I and II are true.

Q31. Find wrong number in series: -2, 6, 12, 20, -30, 40, -56

- (a) 6 (b) 12 (c) 20 (d) -30

Q32. Find wrong number in series: 1, -4, 9, 16, 25, -36

- (a) -4 (b) 9 (c) 16 (d) 25

Directions to solve Question 33 and 34: Each of the questions given below consists of a statement and/or a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statement(s) is/are sufficient to answer the given question.

Read both the statements and Give answer

- (a) if the data in Statement I alone is sufficient to answer the question, while the data in Statement II alone is not sufficient to answer the question.
(b) if the data in Statement II alone is sufficient to answer the question, while the data in Statement I alone is not sufficient to answer the question.
(c) if the data in each Statement I and Statement II alone is sufficient to answer the question.
(d) if the data even in both Statements I and II together are not sufficient to answer the question.
(e) if the data in both Statements I and II together are necessary to answer the question.

Q33. Is the integer i is divisible by 20?

I. 4 is a factor of i

II. i is a factor of 10

- (a) A (b) B (c) C (d) D (e) E

Q34. In which year X was born?

Statement I. X is 30 years younger than his mother

Statement II. Rahul's elder brother is 25 years younger than his mother

- (a) A (b) B (c) C (d) D (e) E

Q35. Consider the following phrase:

Statement: 1. All C are J. 2. All J are B. 3. No B is R.

Conclusions:

- I. All B are C. II. Some J are C

Choose the correct option given below:

- (a) only conclusion I is true.
(b) only conclusion II is true.
(c) either conclusion I or conclusion II is true
(d) neither conclusion I nor conclusion II is true
(e) both conclusions I and II are true.

Q36. Consider the following phrase:

Statement: The committee humiliated Shahrukh in the presence of his colleagues.

Assumptions:

- I. The committee did not like Shahrukh
II. Shahrukh was not popular with his colleagues

Choose the correct option given below.

- (a) If only assumption I is implicit
(b) If only assumption II is implicit.
(c) If either I or II is implicit.
(d) If neither I nor II is implicit.

(e) If both I and II are implicit.

Q37. Consider the following phrase:

Statement: People who oppose too much are the people that have done it

Assumptions:

I. It is easier said than done

II. People are dual faced

Choose the correct option given below.

(a) If only assumption I is implicit (b) If only assumption II is implicit.

(c) If either I or II is implicit. (d) If neither I nor II is implicit.

(e) If both I and II are implicit.

Q38. **Statements:**

I – Some S are L

II – Some C are P

III – All P is R

Conclusions:

I. Some P are L

II. Some C are R

Choose the correct option given below:

(a) only conclusion I is true.

(b) only conclusion II is true.

(c) either conclusion I or conclusion II is true

(d) neither conclusion I nor conclusion II is true

(e) both conclusions I and II are true.

Q39 . Consider the following phrase:

Statements:

All mangoes are bananas.

Some bananas are globe.

All globe are square.

Conclusions:

I. Some mangoes are square.

II. No mango is square.

Choose the correct option given below:

(a) only conclusion I is true.

(b) only conclusion II is true.

(c) either conclusion I or conclusion II is true

(d) neither conclusion I nor conclusion II is true

(e) both conclusions I and II are true.

Q40. Consider the following phrase:

Statement: A line from Ram's appointment letter is "you are hereby appointed as a systems engineer

with a probation period of two years and your performance will be reviewed at the end of the period for confirmation.”

Assumptions:

I. At the time of appointment, the performance of one generally is not well known.

II. In the probation period, one tries to prove his worth generally.

Choose the correct option given below.

- (a) If only assumption I is implicit
- (b) If only assumption II is implicit.
- (c) If either I or II is implicit.
- (d) If neither I nor II is implicit.
- (e) If both I and II are implicit.

Answer key

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