

CMC mock-1

Q1. There are 200 questions in a 3 hr examination. Among these questions are 50 mathematics problems. It is suggested that twice as much time be spent on each mathematics problem as for every other type of question. How many minutes should be spent on mathematics problems

- (a) 36 (b) 72 (c) 60 (d) 100

Q2. The number of employees working in a farm is increased by 25% and the wages per head are decreased by 25%. If it results in x% decrease in total wages, then the value of x is:

- (a) 0% (b) 20% (c) 25% (d) 25/4%

Q3. In an assembly election, a candidate got 55% of the total valid votes. 2% of the total votes were declared invalid. If the total number of voters is 104000, then the number of valid votes polled in favour of the candidate is:

- (a) 56056 (b) 56506 (c) 56560 (d) 56650

Q4. In an examination, 19% students fail in Mathematics and 10% students fail in English. If 7% of all students fail in both subjects, then the number of students passed in both subject is

- (a) 36% of all students (b) 64% of all students (c) 71% of all students (d) 78% of all students

Q5. If the 11 team members of a cricket team shake hands with each other. The total number of handshakes would be:

- A. 10 B. 33 C. 55 D. 120

Q6. In a party there are certain number of persons shake hand with each other only once with everyone. If the total number of handshakes is 15. Find the number of persons in the party?

- (a) 7 (b) 8 (c) 9 (d) 10

Q7. In a school 40% of the students play football and 50% play cricket. If 18% of the students neither play football nor cricket the percentage of the students playing both is

- (a) 8% (b) 22% (c) 32% (d) 40%

Q8. Two pipes can fill a tank with water in 15 hours and 12 hours respectively and a third pipe can empty it in 4 hours. If the pipes be opened in order at 8, 9 and 11 a.m. respectively, the tank will be emptied at

- (a) 1.40 p.m. (b) 2.40 p.m. (c) 11.40 a.m. (d) 12.40 p.m

Q9. A swimming pool has 3 drain pipes. The first two pipes A and B operating simultaneously, can empty the pool in half the time that C, the 3rd pipe, alone takes to empty it. Pipe A working alone takes half the time taken by pipe B. Together they take 6 hours 40 minutes to empty the pool. Time taken by pipe A to empty the pool (in hours) is:

- (a) 7 (b) 10 (c) 15 (d) 30

Q10. Acid and water are mixed in a vessel A in the ratio of 5 : 2 and in the vessel B in the ratio 8 : 5. In what proportion should the quantities be taken out from the two vessels so as to form a mixture in which the acid and water will be in the ratio of 9 : 4?

- (a) 7 : 4 (b) 7 : 2 (c) 2 : 7 (d) 2 : 3

Q11. Find the proportion in which three types of sugar at ₹12, ₹14, and ₹20, may be mixed so as to obtain a mixture worth ₹15 per kg?

- (a) 3 : 12 : 16 (b) 4 : 12 : 15 (c) 5 : 5 : 4 (d) 5 : 15 : 6

Q12. A and B entered into partnership investing ₹16000 and ₹2000 respectively. After 3 months A withdrew ₹5000 while B invested ₹5000 more. After 3 more months C joins the business with a capital of ₹21000. The share of B exceeds that of C, out of a total profit of ₹26400 after one year by

- (a) Rs. 1200 (b) Rs. 2400 (c) Rs. 3600 (d) Rs. 4800

Q13. If there is a reduction in the number of workers in a factory in the ratio 15 : 11 and an increment in their wage in the ratio 22 : 25, then the ratio by which the total wage of the workers should be decreased is:

- (a) 3 : 5 (b) 3 : 7 (c) 5 : 6 (d) 6 : 5

Q14. In a bag, there are three types of coins such as 1 rupee, 50 paise and 25 paise in the ratio of 3 : 8 : 20. Their total value is ₹372. The total number of coins is:

- (a) 1200 (b) 961 (c) 744 (d) 612

Q15. The monthly income of two persons are in the ratio 2 : 3 and their monthly expenses are in the ratio 5 : 9. If each of them saves ₹600 per month, then their monthly incomes are:

- (a) Rs. 1,500 and Rs. 2,250 (b) Rs. 1,200 and Rs. 1,800
(c) Rs. 1,600 and Rs. 2,400 (d) Rs. 1,400 and Rs. 2,100

Q16. A cricketer whose bowling average is 12.4 runs per wicket takes 5 wickets for 26 runs and thereby decreases his average by 0.4. The number of wickets taken by him till the last match was:

- (a) 85 (b) 80 (c) 72 (d) 64

Q17. There are 100 students in 3 sections A, B and C of a class. The average marks of all the 3 sections were 84. The average of B and C was 87.5 and the average marks of A is 70. The number of students in A was:

- (a) 20 (b) 25 (c) 30 (d) 35

Q18. A student finds the average of ten 2 digit numbers. While copying numbers, by mistake, he writes one number with its digits interchanged. As a result his answer is 1.8 less than the correct answer. The difference of the digits of the number, in which he made mistake, is

- (a) 6 (b) 4 (c) 3 (d) 2

Q19. Sachin is 60 years old. Amit is 5 years junior to Sachin and 4 years senior to Chetan. Sahil is the youngest brother of Chetan and he is 6 years junior to him. What is the age difference between Sachin and Sahil?

- (a) 6 years (b) 9 years (c) 12 years (d) 15 years

Q20. A father's age is three times that of his elder daughter. Five years back, his age was eight times that of his younger daughter. If the difference between the ages of the two daughters is 5 years, what is the age of the father now?

- (a) 45 years (b) 50 years (c) 55 years (d) 60 years

Q21. The price of 10 chairs is equal to that of 4 tables. The price of 15 chairs and 2 tables together is Rs. 4000. The total price of 12 chairs and 3 tables is:

- (a) Rs. 3500 (b) Rs. 3750 (c) Rs. 3840 (d) Rs. 3900

Q22. Eight people are planning to share equally the cost of a rental car. If one person withdraws from the arrangement and the others share equally the entire cost of the car, then the share of each of the remaining persons increased by:

- (a) $\frac{1}{7}$ (b) $\frac{1}{8}$ (c) $\frac{1}{9}$ (d) $\frac{7}{8}$

Q23. In a regular week, there are 5 working days and for each day, the working hours are 8. A man gets Rs. 2.40 per hour for regular work and Rs. 3.20 per hours for overtime. If he earns Rs. 432 in 4 weeks, then how many hours does he work for ?

- (a) 160 (b) 175 (c) 180 (d) 195

Q24. A train can travel 50% faster than a car. Both start from point A at the same time and reach point B 75 kms away from A at the same time. On the way, however, the train lost about 12.5 minutes while stopping at the stations. The speed of the car is:

- (a) 100 kmph (b) 110 kmph (c) 120 kmph (d) 130 kmph

Q25. Two towns are connected by railway. Can you find the distance between them?

I. The speed of the mail train is 12 km/hr more than that of an express train.

II. A mail train takes 40 minutes less than an express train to cover the distance.

- (a) I alone sufficient while II alone not sufficient to answer
(b) II alone sufficient while I alone not sufficient to answer (c) Either I or II alone sufficient to answer
(d) Both I and II are not sufficient to answer (e) Both I and II are necessary to answer

Q26. Robert is travelling on his cycle and has calculated to reach point A at 2 P.M. if he travels at 10 kmph, he will reach there at 12 noon if he travels at 15 kmph. At what speed must he travel to reach A at 1 P.M.?

- (a) 8 kmph (b) 11 kmph (c) 12 kmph (d) 14 kmph

Directions for questions (27-31): In an Exhibition seven cars of different companies - Cadillac, Ambassador, Fiat, Maruti, Mercedes, Bedford and Fargo are standing facing to east in the following order :

1. Cadillac is next to right of Fargo.
2. Fargo is fourth to the right of Fiat.

3. Maruti car is between Ambassador and Bedford.
4. Fiat which is third to the left of Ambassador, is at one end.

Q27. Which of the cars are on both the sides of cadillac car ?

- (a) Ambassador and Maruti (b) Maruti and Fiat (c) Fargo and Mercedes (d) Ambassador and Fargo

Q28. Which of the following statement is correct ?

- (a) Maruti is next left of Ambassador. (b) Bedford is next left of Fiat.
(c) Bedford is at one end. (d) Fiat is next second to the right of Maruti.

Q29. Which one of the following statements is correct ?

- (a) Fargo car is in between Ambassador and Fiat. (b) Cadillac is next left to Mercedes car.
(c) Fargo is next right of Cadillac. (d) Maruti is fourth right of Mercedes.

Q30. Which of the following groups of cars is to the right of Ambassador ?

- (a) Cadillac, Fargo and Maruti (b) Mercedes, Cadillac and Fargo
(c) Maruti, Bedford and Fiat (d) Bedford, Cadillac and Fargo

Q31. Which one of the following is the correct position of Mercedes ?

- (a) Next to the left of Cadillac (b) Next to the left of Bedford
(c) Between Bedford and Fargo (d) Fourth to the right of Maruti.

Directions for questions (32-35): Six girls are sitting in a circle facing to the centre of the circle. They are P, Q, R, S, T and V. T is not between Q and S but some other one. P is next to the left of V. R is 4th to the right of P.

Q32. Which of the following statement is not true?

- (a) S is just next to the right to R (b) T is just next to the right of V
(c) R is second to the left of T (d) P is second to the right of R

Q33. If P and R interchange their positions then which of the following pair will sit together ?

- (a) RT (b) PV (c) VT (d) QV

Q34. What is the position of T ?

- (a) Just next to the right of Q (b) Second to the left of P
(c) Between Q and R (d) To the immediate right of V

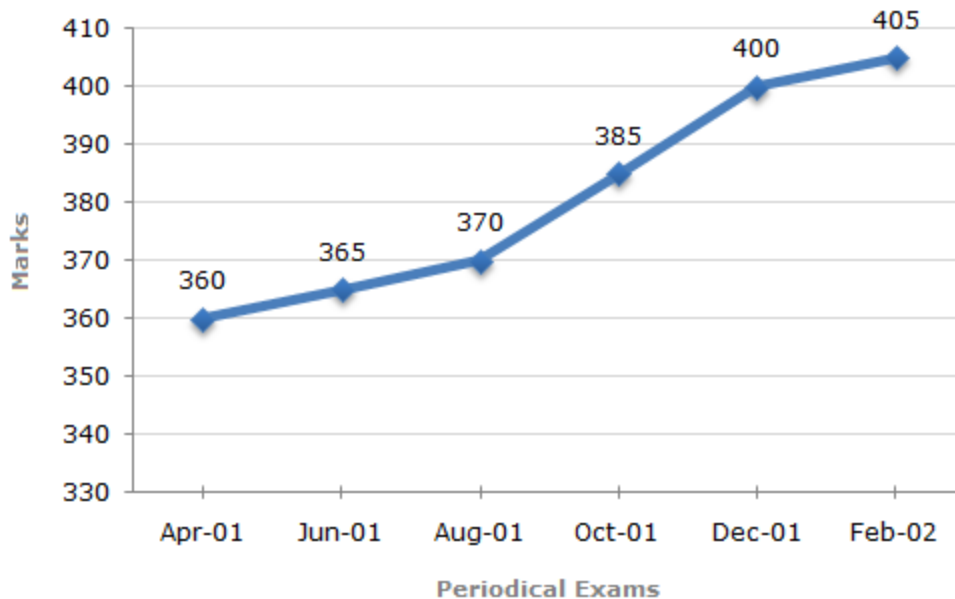
Q35. Which one is sitting just right to the V?

- (a) P (b) T (c) R (d) S/Q

Directions for the questions (36-40): In a school the periodical examination are held every second month. In a session during April 2001 - March 2002, a student of Class IX appeared for each of the periodical exams. The aggregate marks obtained by him in each periodical exam are represented in the line-graph given below.

Marks Obtained by student in Six Periodical Held in Every Two Months During the Year in the Session 2001 - 2002.

Maximum Total Marks in each Periodical Exam = 500



Q36. In which periodical exams did the student obtain the highest percentage increase in marks over the previous periodical exams ?

- (a) June, 01 (b) August, 01 (c) Oct, 01 (d) Dec, 01

Q37. The total number of marks obtained in Feb. 02 is what percent of the total marks obtained in April 01 ?

- (a) 110% (b) 112.5% (c) 115% (d) 116.5%

Q38. What is the percentage of marks obtained by the student in the periodical exams of August, 01 and Oct, 01 taken together ?

- (a) 73.25% (b) 75.5% (c) 77% (d) 78.75%

Q39. What are the average marks obtained by the student in all the periodical exams during the last session ?

- (a) 373 (b) 379 (c) 381 (d) 385

Q40. In which periodical exams there is a fall in percentage of marks as compared to the previous periodical exams?

- (a) June, 01 (b) Oct, 01 (c) Feb, 02 (d) None

Answer key

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