

ITC Mock test-1

Q1. Out of 20 boys, 6 are each of 1 m 15 cm height, 8 are of 1 m 10 cm and rest are 1 m 12 cm. The average height of all of them is:

- (a) 1m 12 cm (b) 1m 12.1 cm (c) 1m 21 cm (d) 1m 21.1 cm

Q2. $2^{16}-1$ is divisible by

- (a) 11 (b) 13 (c) 17 (d) 19

Q3. The red blood cells in a blood sample grows by 10% per hour in first two hours, decreases by 10% in next one hour, remains constant in next one hour and again increases by 5% per hour in next two hours. If the original count of the red blood cells in the sample is 40000, find the approximate red blood cell count at the end of 6 h.

- (a) 48000 (b) 48025 (c) 48054 (d) 48920

Q4. The single discount equal to three consecutive discounts of 10%, 12% and 5% is:

- (a) 26.27% (b) 24.76% (c) 9% (d) 11%

Q5. The wrong number of the sequence 4, 9, 19, 39, 79, 169, 319 is

- (a) 9 (b) 39 (c) 79 (d) 169

Q6. Three persons undertake to complete a piece of work for Rs.1200. The first person can complete the work in 8 days, second person in 12 days and third person in 16 days. They complete the work with the help of a fourth person in 3 days. What does the fourth person get?

- (a) Rs. 250 (b) Rs. 225 (c) Rs. 200 (d) Rs. 180

Q7. A number between 1000 and 2000 which when divided by 30, 36 and 80 gives a remainder 11 in each case is

- (a) 1451 (b) 1641 (c) 1523 (d) 1712

Q8. A fruit seller buys 240 apples for Rs. 600. Some of these apples are bad and are thrown away. He sells the remaining apples at Rs. 3.50 each and makes a profit of Rs. 198. The per cent of apples thrown away are

- (a) 5% (b) 6% (c) 7% (d) 8%

Q9. If $x : y = 5 : 6$, then $(3x^2 - 2y^2) : (y^2 - x^2)$ is:

- (a) 7:6 (b) 11:3 (c) 3:11 (d) 6:7

Q10. When two numbers are separately divided by 33, the remainders are 21 and 28, respectively. If the sum of the two numbers is divided by 33, then the remainder will be:

- (a) 16 (b) 14 (c) 12 (d) 10

Q11. 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

Q12. 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

Q13. 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

Q14. An alloy contains copper, zinc and nickel in the ratio of 5 : 3 : 2. The quantity of nickel in kg that must be added to 100 kg of this alloy to have the new ratio 5 : 3 : 3 is:

- (a) 8 (b) 10 (c) 12 (d) 15

Q15. The ratio of the ages of Ram and Rahim 10 years ago was 1 : 3. The ratio of their ages five years hence will be 2 : 3. Then the ratio of their present ages is:

- (a) 1:2 (b) 3:5 (c) 3:4 (d) 2:5

Q16. The ratio between two numbers is 2 : 3. If each number is increased by 4, the ratio between them becomes 5 : 7. The difference between the numbers is:

- (a) 8 (b) 6 (c) 4 (d) 2

Q17. Monthly incomes of A and B are in the ratio of 4 : 3 and their expenses bear the ratio 3:2. Each of them saves Rs. 6,000 at the end of the month, then the monthly income of A is

- (a) Rs. 12,000 (b) Rs. 24,000 (c) Rs. 30,000 (d) Rs. 60,000

Q18. The average of three consecutive odd numbers is 12 more than one third of the first of these numbers. What is the last of the three numbers?

- (a) 15 (b) 17 (c) 19 (d) Data inadequate

Q19. a and b are odd numbers, then which of the following is even?

- (a) $a + b + ab$ (b) $a + b - 1$ (c) $a + b + 1$ (d) $a + b + 2ab$

Q20. A mixture contains milk and water in the ratio of 4 : 1. If 5 liters of water is added to the mixture, the ratio of milk to water becomes 3 : 2. What is the original quantity of milk in the mixture?

- (a) 12 litres (b) 16 litres (c) 20 litres (d) 24 litres

Q21. If $\sqrt{1+x}/961=32/31$, then the value of x is:

- (a) 63 (b) 61 (c) 65 (d) 64

Directions for questions (22-24): Study the following information carefully and answer the questions given below:

In a certain code language:

'China America conducts meeting' is coded as 'x5b z7b x4t n7h'

'Online session for students' is coded as 'l3f h7o u3s h4t'

'Masks sale growing fast' is coded as 'n5t h2f t7h u2u'

'School and college closed' is coded as 'h3m z3e x7f x3e'

Q22. What is the code of 'escape' as per the given code language?

- (a) v6f (b) v3f (c) f6v (d) f3v (e) None of these

Q23. What is the code of 'migrant worker' as per the given code language?

- (a) n7u d3s (b) m7u d6s (c) n8u w3r (d) m8t w6s (e) None of these

Q24. Which of the following word is coded as 't5t' as per the given code language?

- (a) Gathering (b) Greetings (c) Terrible (d) Transport (e) Guidelines

Q25. The ratio of the ages of two brothers is 3 : 5. Ten years ago, the ratio of their ages was 1 : 2. The difference in their current ages is

- (a) 10 (b) 15 (c) 20 (d) 25

Q26. A farmer has 945 cows and 2475 sheep. He farms them into flocks, keeping the cows and sheep separately and having the same number of animals in each flock. If these flocks are as large as possible, then the maximum number of animals in each flock and the total number of flocks required for the purpose are respectively

- (a) 9 and 380 (b) 45 and 76 (c) 15 and 228 (d) 46 and 75

Q27. If the H.C.F. and L.C.M. of two consecutive (positive) even numbers be 2 and 84 respectively, then the sum of the numbers is

- (a) 14 (b) 26 (c) 30 (d) 34

Q28. A dealer sold a bicycle at a profit of 10%. Had he bought the bicycle at 10% less price and sold it at a price Rs. 60 more, he would have gained 25%. The cost price of the bicycle was

- (a) Rs. 2000 (b) Rs. 2200 (c) Rs. 2400 (d) Rs. 2600

Q29. 150 workers were engaged to finish a piece of work in a certain number of days. Four workers dropped on the second day, four more workers dropped on third day and so on. It takes 8 more days to finish the work now. Find the number of days in which the work was completed?

- (a) 24 (b) 25 (c) 28 (d) 30

Q30. Find the missing number of the sequence 3, 14, 25, 36, 47, ?

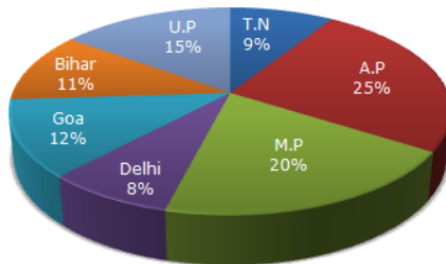
- (a) 56 (b) 54 (c) 55 (d) 58

Q31. The sum of three altitudes of a triangle is

- (a) Equal to the sum of three sides (b) Less than the sum of sides
(c) Greater than the sum of sides (d) Twice the sum of sides

Directions for questions (32-36): Study the following graph and the table and answer the questions given below.

Data of different states regarding population of states in the year 1998



Total population of the given States = 3276000.

States	Sex and Literacy wise Population Ratio			
	Sex		Literacy	
	M	F	Literate	Illiterate
A.P.	5	3	2	7
M.P.	3	1	1	4
Delhi	2	3	2	1
Goa	3	5	3	2
Bihar	3	4	4	1
U.P.	3	2	7	2
T.N.	3	4	9	4

Q32. What will be the percentage of total number of males in U.P., M.P. and Goa together to the total population of all the given states?

- (a) 25% (b) 27.5% (c) 28.5% (d) 31.5%

Q33. What was the total number of illiterate people in A.P. and M.P. in 1998?

- (a) 876040 (b) 932170 (c) 981550 (d) 1161160

Q34. What is the ratio of the number of females in T.N. to the number of females in Delhi?

- (a) 7 : 5 (b) 9 : 7 (c) 13 : 11 (d) 15 : 14

Q35. What was the number of males in U.P. in the year 1998?

- (a) 254650 (b) 294840 (c) 321470 (d) 341200

Q36. If in the year 1998, there was an increase of 10% in the population of U.P. and 12% in the population of M.P. compared to the previous year, then what was the ratio of populations of U.P. and M.P. in 1997?

- (a) 42 : 55 (b) 48 : 55 (c) 7 : 11 (d) 4 : 5

Directions for questions (37-40): Study the following information carefully and answer the given questions:

A group of eight friends – A, B, C, D, E, F, G and H – are sitting in a straight line facing north. A sits third to the right of F. Neither A nor F sits at the extreme ends of the line. E is not an immediate neighbour of either A or F. One person is sitting between H and C. G sits at the end of the line. B sits on the immediate right of A. E doesn't sit to the left of D. C sits at the 4th position from either end.

Q37. How many people sit between H and A?

- (a) One (b) Three (c) Two (d) Five (e) None of these

Q38. How many people sit between F and B?

- (a) One (b) Three (c) Two (d) Five (e) None of these

Q39. What is the position of D concerning F?

- (a) Second to the left (b) Third to the left (c) Third to the right
(d) Second to the right (e) None of these

Q40. If G is related to E and F is related to A, then similarly, D is related to?

- (a) H (b) E (c) C (d) F (e) None of these

Answer key

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