

## Jakson mock test-1

- Q1. The L.C.M. of two numbers is 4 times their H.C.F.. The sum of L.C.M. and H.C.F. is 125. If one of the numbers is 100, then the other number is
- (a) 125            (b) 100            (c) 25            (d) 5
- Q2. A college has 10 basketball players. A 5-member team and a captain will be selected out of these 10 players. How many different selections can be made?
- (a) 1260            (b) 210            (c)  $10C6 * 6!$             (d)  $10C5 * 6$
- Q3. A reduction of 21% in the price of an item enables a person to buy 3 kg more for ₹100. The reduced price of item per kg is:
- (a) Rs. 5.50            (b) Rs. 7.00            (c) Rs. 7.50            (d) Rs. 10.50
- Q4. A shopkeeper fixes the price of an article at 30% higher than its actual cost. If he sells it at 10% discount on marked price then, the profit is
- (a) 17%            (b) 18%            (c) 19%            (d) 20%
- Q5. The ratio of the fifth and sixth terms of the sequence 1, 3, 6, 10, ... is
- (a) 5 : 6            (b) 5 : 7            (c) 6 : 5            (d) 7 : 5
- Q6. If P + Q means P is the brother of Q; P x Q means P is the wife of Q and P % Q means P is the daughter of Q then which of the following means D is the uncle of A?
- (a) A % B x C + D            (b) A x B + C % D            (c) A + C % B x D            (d) None of these
- Q7. The numbers of the sequence 52, 51, 48, 43, 34, 27, 16 form a pattern. Which of them is misfit in the pattern?
- (a) 485            (b) 43            (c) 34            (d) 27
- Q8. In an examination 75% candidates passed in English and 60% passed in Mathematics. 25% failed in both and 240 passed the examination. Find the total number of candidates.
- (a) 300            (b) 400            (c) 492            (d) 500
- Q9. The numbers of the sequence 56, 72, 90, 110, 132, 154 form a pattern. Which of them is a misfit in the pattern?
- (a) 154            (b) 132            (c) 110            (d) 72
- Q10. The L.C.M. of two positive integers is twice the larger number. The difference of the smaller number and the GCD of the two numbers is 4. The smaller number is
- (a) 6            (b) 8            (c) 10            (d) 12

Q11. A boy has nine trousers and 12 shirts. In how many different ways can he select a trouser and a shirt?

- (a) 21                      (b) 12                      (c) 9                      (d) 108

Q12. How many numbers are there from 700 to 950 (including both) which are neither divisible by 3 nor by 7?

- (a) 107                      (c) 144                      (b) 141                      (d) 145

Q13. Bhim deposited Rs. 15600 in a fixed deposit at the rate of 10% per annum simple interest. After every second year, he adds his interest earnings to the principal. The interest at the end of fourth year is:

- Rs. 1716      (b) Rs. 1872      (c) Rs. 3432      (d) Rs. 3744

Q14. The numerator of a fraction is 4 less than its denominator. If the numerator is decreased by 2 and the denominator is increased by 1, then the denominator becomes eight times the numerator. Find the fraction.

- (a)  $\frac{2}{7}$                       (b)  $\frac{3}{7}$                       (c)  $\frac{3}{8}$                       (d)  $\frac{4}{8}$

**Directions for questions (15-18):** Six friends are sitting in a circle and are facing the centre of the circle. Deepa is between Prakash and Pankaj. Priti is between Mukesh and Lalit. Prakash and Mukesh are opposite to each other.

Q15. Who is sitting right to Prakash ?

- (a) Mukesh                      (b) Deepa                      (c) Pankaj                      (d) Lalit

Q16. Who is just right to Pankaj ?

- (a) Deepa                      (b) Lalit                      (c) Prakash                      (d) Priti

Q17. Who are the neighbours of Mukesh ?

- (a) Prakash and Deepa      (b) Deepa and Priti      (c) Priti and Pankaj      (d) Lalit and Priti

Q18. Who is sitting opposite to Priti ?

- (a) Prakash                      (b) Deepa                      (c) Pankaj                      (d) Lalit

Q19. A tradesman gives 4% discount on the marked price and gives 1 article free for buying every 15 articles and thus gains 35%. The marked price is increased above the cost price by

- (a) 20%                      (b) 39%                      (c) 40%                      (d) 50%

Q20. Which one of the following is a factor of the sum of first 25 natural numbers?

- (a) 12                      (b) 13                      (c) 24                      (d) 26

Q21. A borrows Rs. 800 at the rate of 12% per annum simple interest and B borrows Rs. 910 at the rate of 10% per annum simple interest. In how many years will their amounts of debt be equal?

- (a) 24 years    (b) 22 years    (c) 20 years    (d) 18 years

Q22. A six-digit number is formed by repeating a three-digit number; for example, 256, 256 or 678, 678, etc. Any number of this form is always exactly divisible by

- (a) 7 only    (b) 11 only    (c) 13 only    (d) 1001

Q23. The H.C.F. and L.C.M. of two numbers are 7 and 140 respectively. If the numbers are between 20 and 45, then the sum of the numbers is

- (a) 56    (b) 63    (c) 70    (d) 77

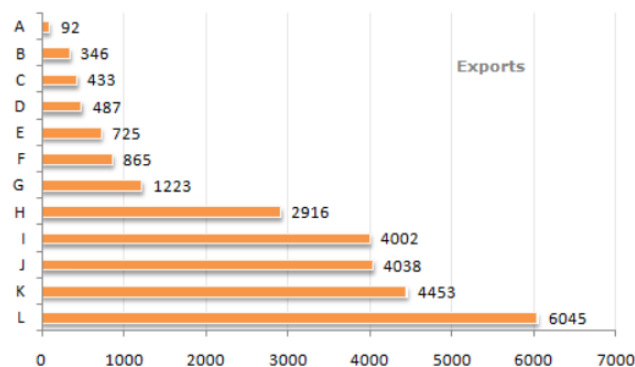
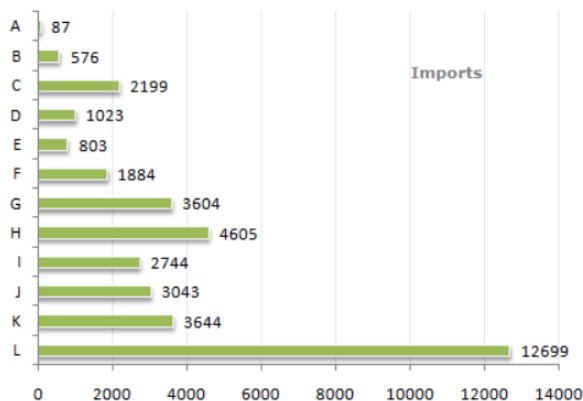
Q24. A fruit merchant makes a profit of 25% by selling mangoes at a certain price. If he charges P1 more on each mango, he would gain 50%. At first the price of one mango was

- (a) 4    (b) 5    (c) 6    (d) 7

Q25. The principal which gives Rs. 1 interest per day at a rate of 5% simple interest per annum is [SSC CGL 2015] (a) Rs. 3650    (b) Rs. 7300    (c) Rs. 8400    (d) Rs. 10950

**Directions for questions (26-30):** Study the following bar charts and answer the questions.

Foreign Trade (Imports and Exports) by countries for the year (1993 - 1994)



Q26. The ratio of the maximum exports to the minimum imports was closest to ?

- (a) 64                      (b) 69                      (c) 74                      (d) 79

Q27. How many countries exhibited a trade surplus ?

- (a) 5                      (b) 4                      (c) 3                      (d) 6

Q28. The total trade deficit/surplus for all the countries put together was ?

- (a) 11286 surplus      (b) 11286 deficit      (c) 10286 deficit      (d) None of these

Q29. The highest trade deficit was shown by which country ?

- (a) C                      (b) G                      (c) H                      (d) L

Q30. The ratio of Exports to Imports was highest for which country ?

- (a) A                      (b) J                      (c) I                      (e) K

**Directions for questions (31-34):** Read the following information carefully and then answer the questions based on them. In a family of six, there are three men L, M and N and three women R, S and T. The six persons are Architect, Lawyer, CA, Professor, Doctor and Engineer by profession but not in the same order.

- (i) There are two married couples and two unmarried persons
- (ii) N is not R's husband
- (iii) The Doctor is married to a Lawyer. R's grandfather is a Professor
- (iv) M is neither L's son, nor he is an Architect or a Professor
- (v) The Lawyer is T's daughter-in-law.
- (vi) N is T's son and the Engineer's father
- (vii) L is married to the CA

Q31. Who is an Architect?

- (a) R                      (b) M                      (c) N                      (d) L                      (e) T

Q32 Which among the following is the correct pair of married couples?

- (a) LS and NT      (b) LR and NM      (c) LT and NS      (d) SM and NR

Q33. How T is related to M?

- (a) Mother              (b) Grandmother              (c) Wife              (d) Daughter

Q34. Who among the following are two unmarried persons?

- (a) L, S                      (b) L, M                      (c) L, T                      (d) R, M

Q35. Introducing a boy, a girl said, "He is the son of the daughter of the father of my uncle." How is the boy related to the girl?

- (a) Brother      (b) Nephew      (c) Uncle      (d) Son-in-law

Q36. Alcohol and water in two vessels A and B are in the ratio 5 : 3 and 5 : 4 respectively. In what ratio, the liquids in both the vessels be mixed to obtain a new mixture in vessel C in the ratio 7 : 5?

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

Q37. A right angled isosceles triangle is inscribed in a semicircle of radius 7 cm. The area enclosed by the semicircle but exterior to the triangle is

- (a) 68 cm square      (b) 44 cm square      (c) 28 cm square      (d) 14 cm square

Q38. From a point P which is at a distance of 13 cm from centre O of a circle of radius 5 cm, in the same plane, a pair of tangents PQ and PR are drawn to the circle. The area of quadrilateral PQOR is

- (a) 30 cm square      (b) 60 cm square      (c) 65 cm square      (d) 90 cm square

Q39. Seven years ago, the age of Vikrant was equal to the present age of Ram. Sum of Vikrant's age 5 years ago and Ram's age 6 years later is 58 years. If Alex is 4 years elder to Vikrant, then what will be Alex's age (in years) after 10 years?

- (a) 36      (b) 38      (c) 42      (d) 46

Q40. The average of six numbers is 32. If each of the first three numbers is increased by 2 and each of the remaining three numbers is decreased by 4, then the new average is:

- (a) 30      (b) 31      (c) 34      (d) 35

### Answer key

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