TPC test-12

Q1. In a class of 60 students and 5 teachers, each student got sweets that are 25% of the total number of students and each teacher got sweets that are 20% of the total number of students. How many sweets were there?

(a) 845   (b) 897   (c) 810   (d) None of these

Q2. The average of six consecutive even numbers is 38. Find the difference between the largest and the smallest number?

(a) 8   (b) 10   (c) Can not be determined   (d) None of these

Q3. The length and width of a field are in the ratio 8 : 5. If the width of the field is 65 m then its length is:

(a) 104 m   (b) 80 m   (c) 50 m   (iv) 70 m

Q4. When 65% of a number is added to 48, the result is 80% of the same number. What is 45% of the same number?

(a) 144   (b) 96   (c) 320   (d) 640

Q5. After allowing a discount of 20% there is loss of 12%. Find the ratio of Cost price to MRP?

(a) 5 : 6   (b) 10 : 11   (c) Data inadequate   (d) None of these

Q6. A library has an average of 510 visitors on Sundays and 240 on other days. The average number of visitors per day in a month of 30 days beginning with a Sunday is:

(a) 250   (b) 276   (c) 280   (d) 285

Q7. A shopkeeper claims to sell goods at 35% profit but uses a weight of 900 gm for 1 kg. find the percentage profit to the shopkeeper?

(a) 40%   (b) 45%   (c) 50%   (d) 55%

Q8. Mr. Thomas invested an amount of Rs. 13,900 divided in two different schemes A and B at the simple interest rate of 14% p.a. and 11% p.a. respectively. If the total amount of simple interest earned in 2 years be Rs. 3508, what was the amount invested in Scheme B?

(a) Rs. 6400   (b) Rs. 6500   (c) Rs. 7200   (d) Rs. 7500   (e) None of these

Q9. The ratio of the number of boys and girls in a college is 7 : 8. If the percentage increase in the number of boys and girls be 20% and 10% respectively, what will be the new ratio?

(a) 8 : 9   (b) 17 : 18   (c) 21 : 22   (d) Cannot be determined

Q10. A merchant has 500 kg of sugar part of which he sells at 8% profit and the rest at 18% profit. He gains 14% on the whole. The Quantity sold at 18% profit is

(a) 400 kg   (b) 560 kg   (c) 300 kg   (d) None of these

Q11. If the rate of compound interest is 20%, in how many years approximately a sum of money will be doubles?

(a) 3 years   (b) 4 years   (c) 5 years   (d) None of these

Q12. A and B undertake to do a piece of work for Rs. 4800. A alone can do it in 75 days while B alone can do it in 40 days. With the help of C, they finish the work in 25 days. How much should C get for his work?

(a) Rs. 400   (b) Rs. 200   (c) Rs. 360   (d) Rs. 100   (e) Rs. 60

Q13. A train is travelling at 120 kmph, crosses a man 6 second. Find the length of the train ?

(a) 100 m   (b) 200 m   (c) 300 m   (d) None of these

Q14. Find the largest four-digit number exactly divisible by 15,21 and 28.

(a) 9960   (b) 9972   (c) 9952   9967(d)

Q15. A can finish a work in 24 days, B in 8 days and C in 12 days. B and C start the work but are forced to leave after 2 days. The remaining work was done by A in:

(a) 5 days   (b) 6 days   (c) 10 days   (d) None of these

Q16. The policemen at three different places on the ground blow a whistle after every 42 sec, 60 sec, and 78 sec respectively. If they all blow the whistle simultaneously at 9:30:00 hours, then at what time do they whistle again together.

(a) 11:01:00   (b) 11:05:00   (c) Data inadequate (d) None of these

Q17. Tickets numbered 1 to 20 are mixed up and then a ticket is drawn at random. What is the probability that the ticket drawn has a number which is a multiple of 3 or 5?

(a) ½   (b) 3/5   (c) 9/20   (d) 8/15

Q18. The 30 members of a club decided to play a badminton singles tournament. Every time a member loses a game he is out of the tournament. There are no ties. What is the minimum number of matches that must be played to determine the winner ?

(a) 15   (b) 29   (c) 61   (b) None of these

Q19. In a garden, there are 10 rows and 12 columns of mango trees. The distance between the two trees is 2 metres and a distance of one metre is left from all sides of the boundary of the garden. The length of the garden is

(a) 20 m   (b) 22 m   (c) 24 m   (d) 26 m

Q20. What least number must be multiplied to 675 to make it a perfect cube ?

(a) 5   (b) 15   (c) 20   (d) 25

Q21. Find the central angle between two hands of a clock at 3 : 25 minutes ?

(a) 60°   (b) 47.5°   (c) 50°   (d) 0°

Q22. Pointing to a lady in the photograph, Monika said, "Her son's father is the son-in-law of my mother." How is Monika related to the lady?

(a) Aunt   (b) Sister   (c) Mother   (d) Cousin

Q23. How many weekends in a year?

(a) 52   (b) 53   (c) 103   (d) 104

Q24. In a family, there are six members A, B, C, D, E and F. A and B are a married couple, A being the male member. D is the only son of C, who is the brother of A. E is the sister of D. B is the daughter-in-law of F, whose husband has died. How is E related to C?

(a) Sister   (b) Daughter   (c) Cousin   (d) Mother

Q25. If 6th March, 2005 is Monday, what was the day of the week on 6th March, 2004?

(a) Sunday   (b) Saturday   (c) Wednesday   (d) Tuesday

Q26. A watch which gains 5 seconds in 3 minutes was set right at 7 a.m. In the afternoon of the same day, when the watch indicated quarter past 4 o'clock, the true time is:

(a) $59\frac{7}{12}$ min past 3   (b) 4 pm   (c) $58\frac{7}{11}$ min past 3   (d) $2\frac{3}{11}$ min past 4

Q27. Look at this series: 3, 4, 7, 8, 11, 12, ... What number should come next?

(a) 7   (b) 10   (c) 14   (d) 15

Q28. Look at this series: F2, __, D8, C16, B32, ... What number should fill the blank?

(a) A16   (b) G4   (c) E4   (d) E3

Direction : In each of the following questions find out the alternative which will replace the question mark.

Q29. Paw : Cat :: Hoof : ?

(a) Lamb   (b) Elephant   (c) Lion   (d) Horse

Q30. REASON : SFBTPO :: THINK : ?

(a) SGHMJ   (b) UIJOL   (c) UHNKI   (d) UJKPM

Direction : In each of the following questions two statements are given. Which are followed by four conclusions (1), (2), (3) and (4). Choose the conclusions which logically follow from the given statements.

Q31. Statements: No door is dog. All the dogs are cats.

Conclusions:
1.   No door is cat.
2.   No cat is door.
3.   Some cats are dogs.
4.   All the cats are dogs.

(a) Only (2) and (4)

(b) Only (1) and (3)

(c) Only (3) and (4)

(d) Only (3)

(e) All the four

Q32. Statements: All men are vertebrates. Some mammals are vertebrates.

Conclusions:
1.   All men are mammals.
2.   All mammals are men.
3.   Some vertebrates are mammals.
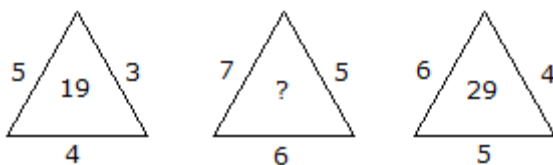4.   All vertebrates are men.

(a) Only (4)   (b) Only (2)   (c) Only (3)   (d) Only (1)   (e) Only (1) and (3)

Q33. Arrange the words given below in a meaningful sequence.

1. Poverty	2. Population	3. Death
4. Unemployment	5. Disease	

(a) 2, 3, 4, 5, 1   (b) 3, 4, 2, 5, 1   (c) 2, 4, 1, 5, 3   (d) 1, 2, 3, 4, 5

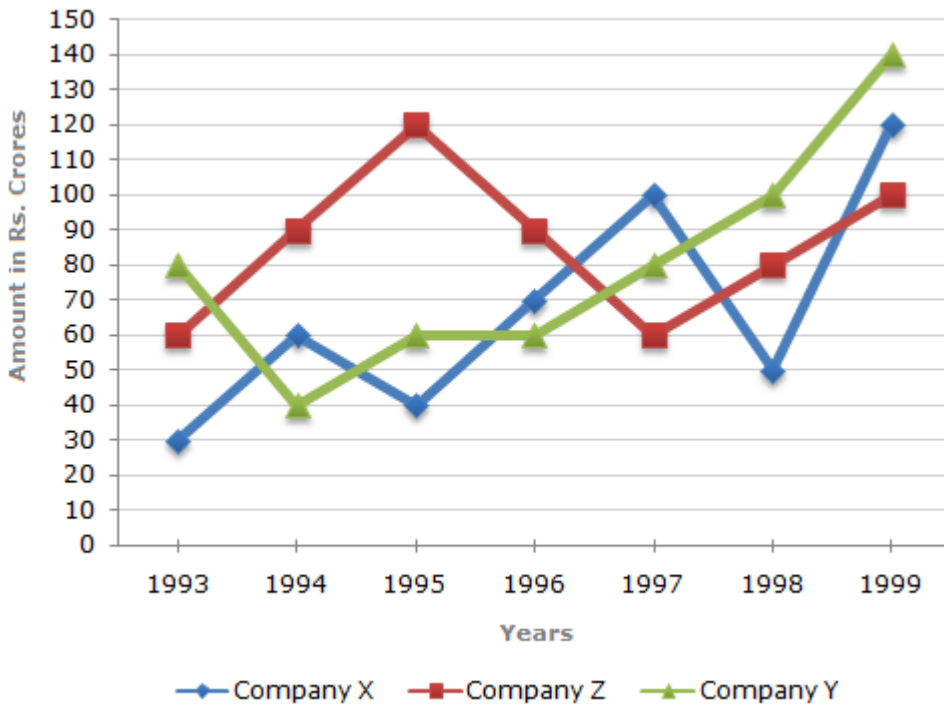Q34. Which one will replace the question mark ?

(a) 25   (b) 37   (c) 41   (d) 47

Q35. If A x B means A is to the south of B; A + B means A is to the north of B; A % B means A is to the east of B; A - B means A is to the west of B; then in P % Q + R - S, S is in which direction with respect to Q?

(a) South-West   (b) South-East   (c) North-East   (d) North-West

Direction : Study the following line graph and answer the questions.

Exports from Three Companies Over the Years (in Rs. crore)

Q36. For which of the following pairs of years the total exports from the three Companies together are equal?

(a) 1995 and 1998   (b) 1996 and 1998   (c) 1997 and 1998   (d) 1995 and 1996

Q37. Average annual exports during the given period for Company Y is approximately what percent of the average annual exports for Company Z?

(a) 87.12%   (b) 89.64%   (c) 91.21%   (d) 93.33%

Q38. In which year was the difference between the exports from Companies X and Y the minimum?

(a) 1994   (b) 1995   (c) 1996   (d) 1997

Q39. What was the difference between the average exports of the three Companies in 1993 and the average exports in 1998?

(a) Rs. 15.33 crores   (b) Rs. 18.67 crores   (c) Rs. 20 crores   (d) Rs. 22.17 crores

Q40. In how many of the given years, were the exports from Company Z more than the average annual exports over the given years?

(a) 2   (b) 3   (c) 4   (d) 5

Answer keys

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