

TPC test-1

Q1. The average of marks obtained in 120 students was 30. If average of passed candidates was 45 and that of failed candidates is 20, the numbers of candidates who passed the examinations is:

- (a) 30 (b) 45 (c) 48 (d) 72

Q2. The lcm of four consecutive numbers is 60. The sum of the first two numbers is equal to the fourth number. What is the sum of the four numbers?

- (a) 14 (b) 17 (c) 21 (d) 24

Q3. Two friends, Aman & Brandon had some candies each. One of them had 15 candies more than the other. The candies with Akash was 60% of the total candies with them. How many candies did each have?

- (a) 40, 25 (b) 47, 32 (c) 45, 30 (d) 49, 34

Q4. A shopkeeper gives two successive discounts of 20 % and 10 % on surplus stock. Further, he also gives a 5 % extra discount on cash payments. If a person buys a shirt from the surplus stock and pays in cash, what overall discount percent will he get on the shirt?

- (a) 30% (b) 31.60% (c) Data inadequate (d) None of these

Q5. A, B and C can do a piece of work in 20, 30 and 60 days respectively. In how many days can A do the work if he is assisted by B and C on every third day?

- (a) 12 days (b) 15 days (c) 16 days (d) 18 days

Q6. What percentage of numbers from 1 to 50 has 1 or 9 in the unit's digit?

- (a) 12% (b) 15% (c) 20% (d) 22%

Q7. In XYZ College, 65% of students are less than 20 years of age. The number of students more than 20 years of age is $\frac{2}{3}$ of number of students of 20 years of age which is 42. What is the total number of students in the ABC College?

- (a) 75 (b) 90 (c) 130 (d) 200

Q8. Tap A fills the tank in 10 hours, tap B fills the tank in 12 hours and tap C empties the tank in 30 hours. If all three are opened simultaneously, how much time does it take to fill / empty the tank?

- (a) 6 hour (b) 6.40 hour (c) 7 hour (d) 6.67 hour

Q9. A student erroneously multiplied a number by $\frac{4}{5}$ instead of $\frac{5}{4}$. What is the percentage error in the calculation?

- (a) 36% (b) 54% (c) 74% (d) 84%

Q10. A alone can do a piece of work in 6 days and B alone in 8 days. A and B undertook to do it for Rs.6400. With the help of C, they completed the work in 3 days. How much is to be paid to C?

- (a) Rs. 375 (b) Rs. 800 (c) Rs. 600 (d) None of these

Q11. A man sold two watches at the same price, one at a 10 % profit and the other at a 10 % loss. Find his overall gain or loss percentage.

- (a) 1% loss (b) 4% (c) 5% (d) No profit and no loss

Q12. Two pipes A and B can fill a tank in 20 hours and 30 hours respectively. If both the pipes are opened simultaneously, find after how much time should pipe B be closed so that the tank is full in 18 hours?

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

Q13. A dealer incurs a loss of 5 % if he sells an article for Rs. 1805. What price must he sell the article so as to gain 5 % on that article?

- (a) Rs. 1900 (b) Rs. 1995 (c) Rs. 2000 (d) None of these

Q14. A seller claims to sell at cost price but gives 700 gm for each KG. Find his gain percent.

- (a) 30% (b) 40% (c) $42\frac{6}{7}\%$ (d) None of these

Q15. let x be the smallest number which when added to 2000 makes the resulting number divisible by 12, 16, 18 and 21. The sum of the digits of x is?

- (a) 6 (b) 7 (c) 5 (d) 15

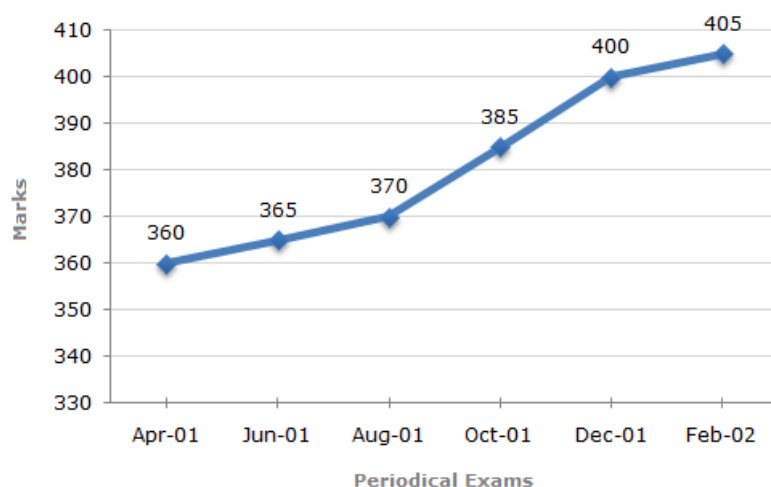
Q16. Eight consecutive numbers are given. If the average of the two numbers that appears in the middle is 6, then the sum of the eight given numbers is:

- (a) 36 (b) 48 (c) 54 (d) 64

Directions (17-20) : 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



Q17. 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

Q18. 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%

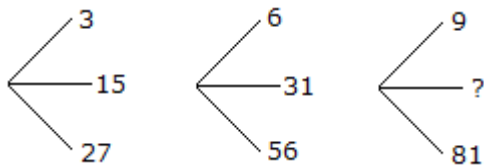
Q19. What is the percentage of marks obtained by the student in the periodical exams of August, 01 and Oct, 01 taken together ?

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

Q20. 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

Q21. Which one will replace the question mark?



- (a) 45 (b) 41 (c) 32 (d) 40

Q22. The Pacific yew is an evergreen tree that grows in the Pacific Northwest. The Pacific yew has a fleshy, poisonous fruit. Recently, taxol, a substance found in the bark of the Pacific yew, was discovered to be a promising new anticancer drug.

- (a) Taxol is poisonous when taken by healthy people.
(b) Taxol has cured people from various diseases.
(c) People should not eat the fruit of the Pacific yew.
(d) The Pacific yew was considered worthless until taxol was discovered.

Q23. A good way to figure out the relationship in a given question is to make up a sentence that describes the relationship between the first two words. Then, try to use the same sentence to find out which of the answer choices completes the same relationship with the third word.

Odometer is to mileage as compass is to

- (a) speed (b) hiking (c) needle (d) direction

Q24. Elated is to despondent as enlightened is to

- (a) aware (b) ignorant (c) miserable (d) tolerant

Q25. In question below is given a statement followed by two conclusions numbered I and II. You have to assume everything in the statement to be true, then consider the two conclusions together and decide which of them logically follows beyond a reasonable doubt from the information given in the statement.

1. 80% of the team consists of spinners.
2. The opening batsmen were spinners.

- (a) Only conclusion I follows (b) Only conclusion II follows (c) Either I or II follows
(d) Neither I nor II follows (e) Both I and II follow

Directions (26-27): In these series, you will be looking at both the letter pattern and the number pattern. Fill the blank in the middle of the series or end of the series.

Q26. QPO, NML, KJI, _____, EDC

- (a) HGF (b) CAB (c) JKL (d) GHI

Q27. SCD, TEF, UGH, _____, WKL

- (a) CMN (b) UJI (c) VIJ (d) IJT

Q28. Arrange the words given below in a meaningful sequence.

1. Leaves	2. Branch	3. Flower
4. Tree	5. Fruit	

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

Directions (29-30) : 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.

Q29. **Statements:** All the books are pencils. No pencil is eraser.

Conclusions:

1. All the pencils are books.
2. Some erasers are books.
3. No book is eraser.
4. Some books are erasers.

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

Q30. **Statements:** All the books are pencils. No pencil is eraser.

Conclusions:





1. All the pencils are books.
2. Some erasers are books.

3. No book is eraser.

4. Some books are erasers.

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

Q31. Which of the following diagrams indicates the best relation between Factory, Product and Machinery?

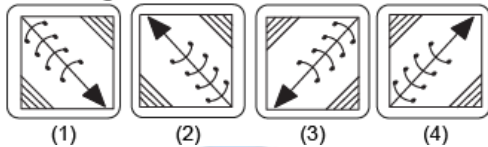
- (a)  (b)  (c)  (d) 

Q32. Choose the correct water image of the question figure, from the given answer figures (assume that water is along XY)

Question figure:



Answer figures:



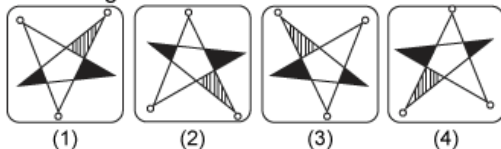
- (A) 1 (B) 2 (C) 3 (D) 4

Q33. Choose the correct water image of the question figure, from the given answer figures (assume that water is along XY)

Question figure:



Answer figures:



- (A) 1 (B) 2 (C) 3 (D) 4

Directions (34-35) : Dev, Kumar, Niles, Ankur and Pintu are standing facing to the North in a playground such as given below:

1. Kumar is at 40 m to the right of Ankur.
2. Dev is at 60 m in the south of Kumar.
3. Nilesch is at a distance of 25 m in the west of Ankur.
4. Pintu is at a distance of 90 m in the North of Dev.

Q34. Which one is in the North-East of the person who is to the left of Kumar?

- (a) Dev (b) Nilesch (c) Ankur (d) Pintu

Q35. If a boy starting from Nilesch, met to Ankur and then to Kumar and after this he to Dev and then to Pintu and whole the time he walked in a straight line, then how much total distance did he cover?

- (a) 215 m (b) 155 m (c) 245 m (d) 185 m

Q36. A cube is cut parallel to one face by making 10 cuts (such that all the resulting pieces are identical). What is the maximum number of identical pieces that can be obtained by now making two more cuts (in any direction)?

- (a) 33 (b) 40 (c) 55 (d) 44

Q37. Veena who is the sister-in-law of Ashok, is the daughter-in-law of Kalyani. Dheeraj is the father of Sudeep who is the only brother of Ashok. How Kalyani is related to Ashok?

- (a) Mother-in-law (b) Aunt (c) Wife (d) None of these

Q38. If $A + B$ means A is the sister of B; $A \times B$ means A is the wife of B, $A \% B$ means A is the father of B and $A - B$ means A is the brother of B. Which of the following means T is the daughter of P?

- (a) $P \times Q \% R + S - T$ (b) $P \times Q \% R - T + S$ (c) $P \times Q \% R + T - S$ (d) $P \times Q \% R + S + T$

Q39. A, B, C, D and E are sitting on a bench. A is sitting next to B, C is sitting next to D, D is not sitting with E who is on the left end of the bench. C is on the second position from the right. A is to the right of B and E. A and C are sitting together. In which position A is sitting ?

- (a) Between B and D (b) Between B and C (c) Between E and D (d) Between C and E

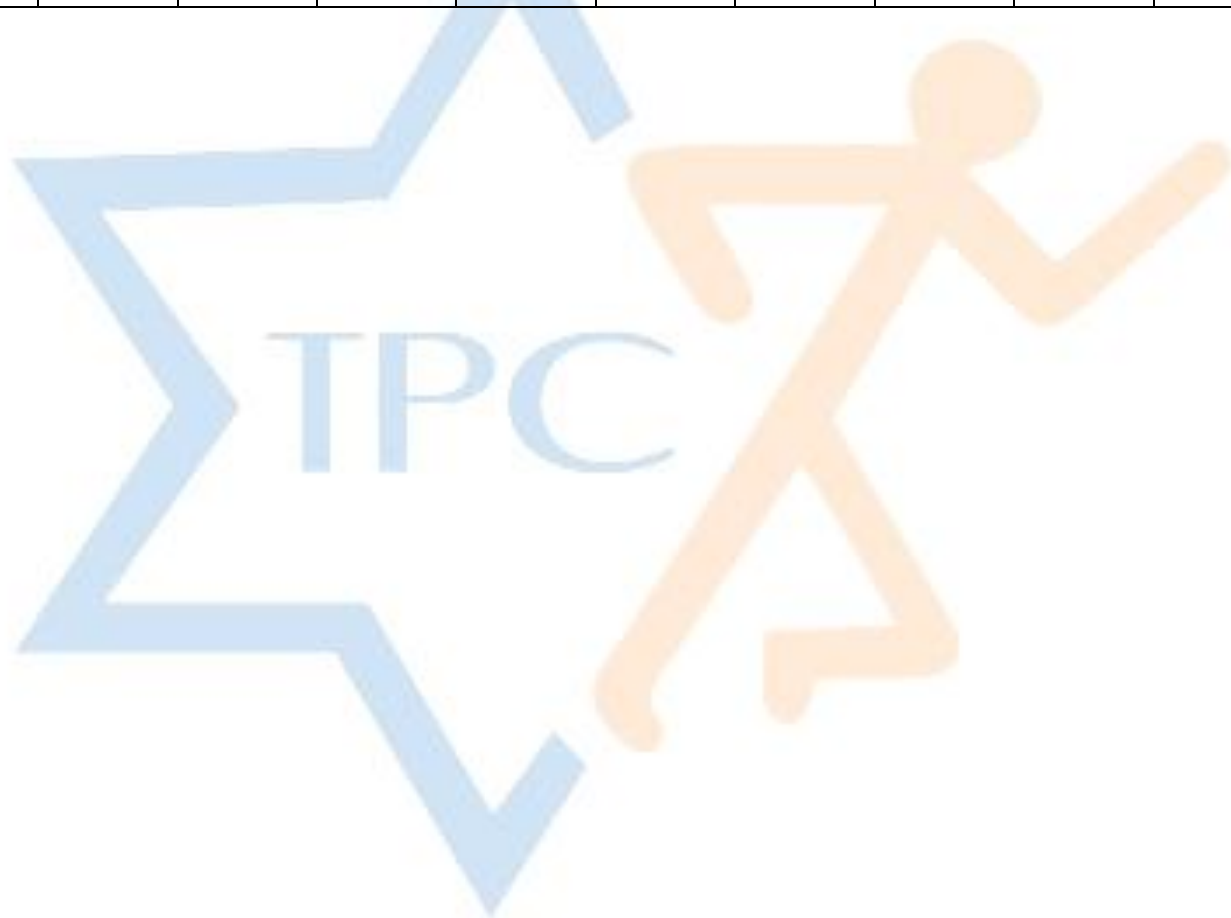
Q40. The 30 members of a club decided to play a badminton singles tournament. Every time a member loses a game he is out of the tournament. There are no ties. What is the minimum number of matches that must be played to determine the winner?

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

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Answer key

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



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