



कुल मुद्रित पृष्ठों की संख्या / Total No. of printed pages: \_\_

**परमाणु ऊर्जा शिक्षण संस्था**

**Atomic Energy Education Society**

**आवधिक परीक्षण / Periodic Test 1 (2025-26)**

**विद्यालय/School: AECS केंद्र/Centre: Mysuru**

**कक्षा/Class: VIII**

**विषय/Subject: Mathematics**

**अंक/Marks: 40**

**दिया गया पाठ्यक्रम/ Portion covered: Bridge Course Week 1 to 4**

विद्यार्थी का नाम / Name of the student: \_\_\_\_\_

अनुक्रमांक/Roll No. \_\_\_\_\_ कक्षा/अनुभाग \_\_\_\_\_ दिनांक /Date: \_\_\_\_\_

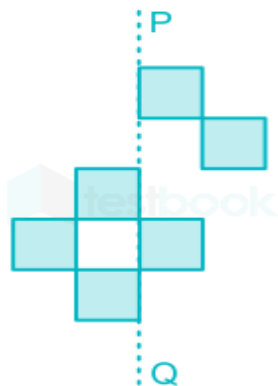
**Question Bank**

**Section – A (1m x 10 = 10 m)**

- How many small cubes are there in a 3x3 Rubik's cube?  
a) 9                      b) 27                      c) 36                      d) 8
- The sum of three consecutive days in a calendar is 27. What will be the date of the second day?  
a) 10                      b) 11                      c) 9                      d) 8
- The sum of the numbers in a 2 x2 grid of a calendar is 20. What are the numbers in the grid?  
a) 1,2,8,9                      b) 2, 3,7 10                      c) 6,7,3,4                      d) none of these
- Find the super cell in the table.

1209	4321	2341	2432	3214	4123	4322
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a) 4321                      b) 3214                      c) 2432                      d) 4123
- What will be the next term in the sequence 1, 8, 27, 64, ----?  
a) 120                      b) 125                      c) 130                      d) 150
- A prime number, sum of whose digits is 10 and the difference between the digits is 8 is a) 73                      b) 19                      c) 91                      d) 37
- The least number of squares to be added to make the figure symmetric is

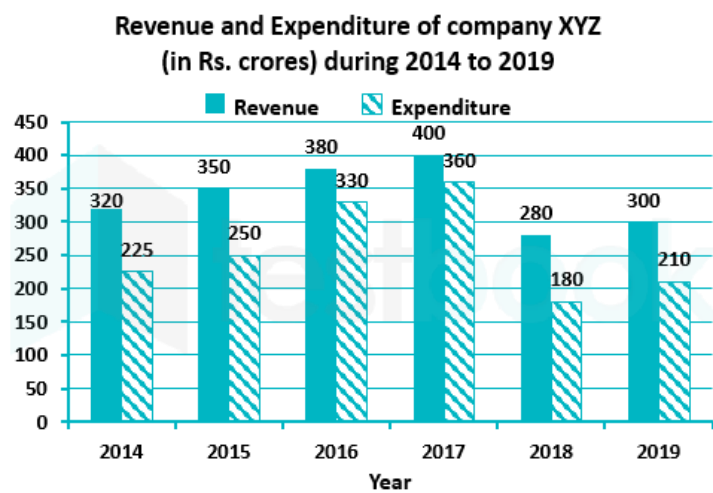


- a) 4                      b) 6                      c) 7                      d) 8
- If yesterday was Sunday, what would be the 81<sup>st</sup> day from today?  
a) Wednesday                      b) Tuesday                      c) Thursday                      d) Friday

9 . I am a 2 digit number with different digits. If you reverse the digits and find the difference ,I will always be a multiple of \_\_\_\_\_.

- a) 8                                      b) 9                                      c) 7                                      d) none of these

10. In which year was the percentage increase in revenue of the company less than 6% in comparison with the previous year?



- a) 2016                                      b) 2017                                      c) 2018                                      d) 2019

**SECTION – B (2m x 3 – 6m)**

11. The following is a 3 x3 grid of a month. Mention any 2 properties of the grid.

14	15	16
21	22	23
28	29	30



12. Define triangular numbers with suitable diagram.
13. Complete the series 1, 1, 2, 3, 5, 8, ..... with the next three terms. What is this series called?

**SECTION – C (3m x 4 = 12m)**

14 . Observe the pattern below. What is the sum of each row and what is the relation between the rows and its sum? Also write the sum of the next two rows.

1  
1 + 3  
1 + 3 + 5  
1 + 3 + 5 + 7  
1 + 3 + 5 + 7 + 9

15. If a number is in a triangle, then its value is( 2x+1). If a number is in a square, then its value is (x<sup>2</sup> - 2). Find the value of the given figure.

 -  = ?







16. Take a two digit number. Reverse the digits of the number. Find the difference of these two numbers. Repeat the process with the resulting number. What do you observe after repeating the same step and explain the reason behind this.

17. Observe the following and answer the unknown. Also, find the value of one star and one cube.

 = 16

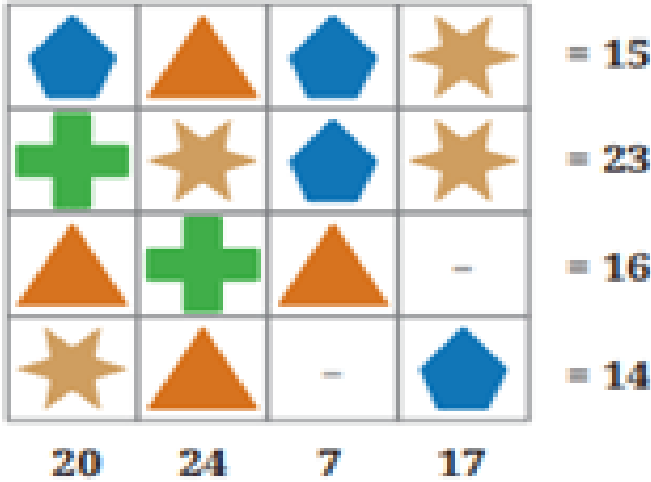
 = 13

 = 8

 = ?

SECTION – D (4m x 3 = 12m)

18. Find the values of each figure.



19. Draw a pie chart, pictograph and a bar graph for the given data.

Favourite activities Of students	No. of students
Playing	250
Studying	150
Browsing	200
Sleeping	200
Total	800

20. Draw the graph of power of 2s and power of 3s. Which graph is steeper?

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