

Total Questions : 50

Time : 1 hr.

**PATTERN & MARKING SCHEME**

Section	(1) Logical Reasoning	(2) Mathematical Reasoning	(3) Everyday Mathematics	(4) Achievers Section
No. of Questions	15	20	10	5
Marks per Ques.	1	1	1	3

**SYLLABUS**
**Section – 1 :** Verbal and Non-Verbal Reasoning.

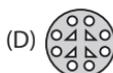
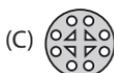
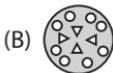
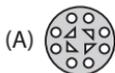
**Section – 2 :** Patterns in Mathematics, Lines and Angles, Number Play, Data Handling and Presentation, Prime Time, Perimeter and Area, Fractions, Playing with Constructions, Symmetry, The Other Side of Zero.

**Section – 3 :** Syllabus as per Section – 2.

**Section – 4 :** Higher Order Thinking Questions - Syllabus as per Section – 2.

**LOGICAL REASONING**

1. The given question consists of a set of three figures X, Y and Z which shows the sequence of folding of a piece of paper. Fig. Z shows the manner in which the folded paper has been cut. Select a figure from the options which shows the unfolded form of Fig. Z.



2. Megha walks 120 m towards East, then takes a left turn and walks 60 m. She then turns left again and walks 80 m. She then takes a right turn and walks 40 m. Finally, she walks 40 m after turning to her left. How far is she now from her starting point?

(A) 60 m                      (B) 100 m                      (C) 140 m                      (D) 40 m

3. Find the number of squares formed in the given figure.

(A) 9                                      (B) 10  
 (C) 11                                      (D) More than 11


**MATHEMATICAL REASONING**

4. How many of the given letters have pairs of perpendicular lines?

F M A H I E

(A) 4                      (B) 5                      (C) 6                      (D) 3

5. Which of the following is the correct representation of the number of story books sold in the month of May, if 1  = 150 books?

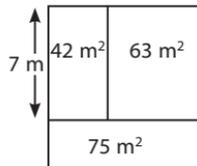
Months	Number of books sold
May	
June	600
July	450
August	300
Total	2100



6. Which of the following clock timings forms a palindrome?  
 (A) 06:56 (B) 12:12 (C) 10:22 (D) 10:01

### EVERYDAY MATHEMATICS

7. Riddhi joined three rectangular pieces of cloth to make a big rectangular table cloth (as shown in the given figure). Area of each rectangle is given inside. Find the cost of lacing the table cloth formed at the rate of ₹ 32 per m. (Ignore the stitching margins).



- (A) ₹ 1800 (B) ₹ 1728  
 (C) ₹ 1290 (D) ₹ 1350
8. If the price of diesel was ₹ 68 in 2017, increased to ₹ 70 in 2018, decreased by ₹ 6 in 2019, increased by ₹ 16 in 2020, then what is the price of diesel in 2020?  
 (A) ₹ 80 (B) ₹ 79 (C) ₹ 64 (D) ₹ 68

### ACHIEVERS SECTION

9. Read the given statements carefully and select the CORRECT option.

**Statement-I :**  $\frac{4}{9}$  of the animals at the farm were cows.  $\frac{1}{2}$  of the remaining animals were goats and rest were chicks. The fraction of the animals at the farm that were chicks is  $\frac{5}{18}$ .

**Statement-II :** Jyoti had a collection of 640 round, rectangular and triangular stickers.  $\frac{3}{8}$  of the stickers were round,  $\frac{1}{4}$  of remaining were triangular and rest were rectangular. She had 200 more rectangular stickers than triangular stickers.

- (A) Both Statement-I and Statement-II are true.  
 (B) Statement-I is true but Statement-II is false.  
 (C) Both Statement-I and Statement-II are false.  
 (D) Statement-I is false but Statement-II is true.
10. Which of the following options is INCORRECT?  
 (A) 755712 is divisible by 2, 4 and 8.  
 (B) 1183 and 1792 are not co-prime numbers.  
 (C) Prime factors of 255 are 1, 3, 5 and 17.  
 (D) 7<sup>th</sup> multiple of greatest factor of 144 is 1008.

### ANSWER KEY

1. (C) 2. (B) 3. (B) 4. (B) 5. (D) 6. (D) 7. (B) 8. (A) 9. (A) 10. (C)