





# ISFO Maths Sample Paper

## **MAXIMUM TIME: 60 MINUTES**

# **MAXIMUM MARKS: 100**

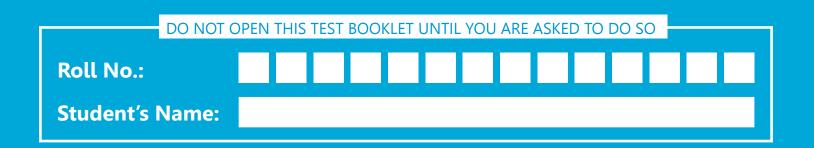
# INSTRUCTIONS

- 1. Please DO NOT OPEN the contest booklet until you are asked to do so.
- 2. The question paper comprises of 4 sections (Total 50 questions):

Section A: Mathematical Reasoning	25-Questions (2 marks each)
Section B: Everyday Maths	15-Questions (1 mark each)
Section C: Logical Reasoning	5-Questions (2 marks each)
Section D: BrainBox	5-Questions (5 marks each)

- 3. All questions are compulsory. There is no negative marking.
- 4. No electronic devices capable of storing and displaying visual information such as calculator and mobile are allowed during the course of the exam.
- 5. Fill all your detail properly on the OMR sheet.
- 6. There is only ONE correct answer of each question.
- 7. To mark your choice of answers by darkening the circles on the OMR Sheet, use an HB Pencil or a Blue/Black Ball Point Pen only.
- 8. Shade your answer clearly as per the given example:





### **SECTION A : MATHEMATICAL REASONING**

- Due to the increase in the price of the milk by 20%, Mr Kunal's family reduces its consumption by 30%. How many percent expenses does Mr Kunal's family reduce on milk?
  - a) 8% b) 12%
  - c) 16% d) 20%
- 2. The numerator of a fraction is 2 less than the denominator, if 1 is added to its denominator, it becomes  $\frac{1}{2}$ . Find the fraction.
  - a)  $\frac{5}{7}$  b)  $\frac{5}{3}$ c)  $\frac{3}{5}$  d)  $\frac{7}{5}$

3. Two cards are drawn at random from a deck of cards. What is the probability that either both are heart or both are king?

a)	$\frac{11}{21}$	b)	$\frac{5}{17}$
c)	$\frac{13}{221}$	d)	$\frac{14}{221}$

4. Find the value of  $\sqrt{248 + \sqrt{52} + \sqrt{144}}$ .

a) 16

b) 12

- c) 18
- d) 14

### **SECTION B : EVERYDAY MATHS**

- Three years ago Piyush ago was half of his father's age. If the ratio of their present ages is 3 : 4, what is the sum of their present age?
  - a) 42
  - b) 38
  - c) 32
  - d) 35

6. Mohit bought a toy for ₹120 and a watch for ₹400. He sold the watch at a loss of 5% and the toy at a profit of 5%. Find the total loss percent in this transaction.

a) 
$$2\frac{9}{13}\%$$
  
b)  $4\frac{7}{15}\%$   
c)  $3\frac{9}{15}\%$   
d)  $5\frac{7}{13}\%$ 

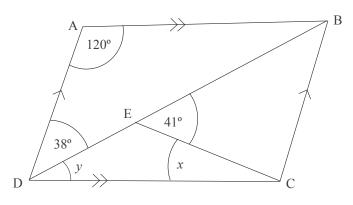
### **SECTION C : LOGICAL REASONING**

7. Find the missing number if all three figures follow the same rule.

	6			2			5		
5	96	7	3	63	4	1	?	2	
	2			7			3		
a)	43	b) 24							
c)	32	d) 17							

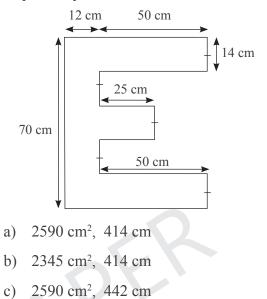
- 8. Anil ranked seventeenth from the top and thirtyseventh from the bottom in a class. How many students are there in the class?
  - a) 55
  - b) 54
  - c) 53
- d) 51

9. In the given figure, (not drawn to the scale) ABCD is a parallelogram. Find the value of 2x - y.



- a) 22
- b) 19
- c) 16
- d) 14

10. All lines in the given figure meet at right angle. Find the area and perimeter of the figure respectively.



d) 2345 cm<sup>2</sup>, 442 cm

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