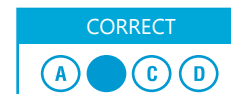# ISFO Maths Sample Paper

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

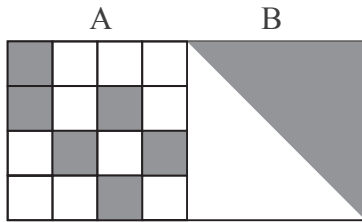8. Shade your answer clearly as per the given example:

   CORRECT   Ⓐ ● Ⓒ Ⓓ

   INCORRECT Ⓐ Ⓑ ● Ⓓ

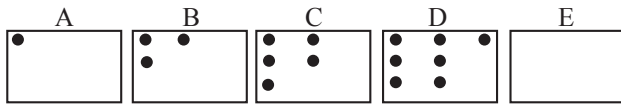**Roll No.:**

Student's Name:

SECTION A: MATHEMATICAL REASONING

1. The figure is made up of two squares. Squares A and B are of equal sizes. What fraction of the figure is shaded?

    A   B

    a) $\frac{11}{16}$ b) $\frac{7}{16}$

    c) $\frac{3}{8}$ d) $\frac{5}{8}$

2. How many dots will be there in figure E?

    A   B   C   D   E

    a) 9   b) 11
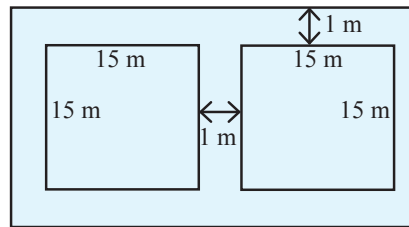
    c) 12   d) 14

3. When the third multiple of 12 is subtracted from the fifth multiple of 8, what is the difference?

    a) 3   b) 4

    c) 5   d) 6

4. Two square parks are each 15 m by 15 m. They are enclosed by a path of width 1 m. There is also a shared sidewalk of width 1 m between the parks. What is the total area of the paths?

    1 m

    15 m   15 m

    15 m   15 m

    1 m

    a) 111 sq. m   b) 222 sq. m

    c) 450 sq. m   d) 561 sq. m

SECTION B: EVERYDAY MATHS

5. Neelam started sewing at 11: 30 a.m. She took 2 h 55 min to sew a shirt and 3h 40 min to sew a pair of trousers. She also took a break of 20 min after sewing the shirt. At what time did she finish sewing?

    a) 6:25 a.m.   b) 6:15 a.m.

    c) 6:15 p.m.   d) 6:25 p.m

6. Neetu went to a movie. The movie started at 10:55 a.m. and lasted after 155 minutes. At what time did the movie end?

    a) 13:20   b) 13:25

    c) 1:30 p.m.   d) 1: 30 a.m.

SECTION C: LOGICAL REASONING

Study the given statement carefully and answer the questions 42 and 43.

Annu created a puzzle for her children to solve as shown below. The different shapes represent a different value. The numbers outside the box represent the total value for each row and column.

120

?

140

130   90   140

7. The missing value is

    a) 70

    b) 80

    c) 90

    d) 100

8. The value of each shape is

    a) ⊘ = 50   ☺ = 60   ◇ = 20

    b) ⊘ = 60   ☺ = 50   ◇ = 20

    c) ⊘ = 20   ☺ = 50   ◇ = 60

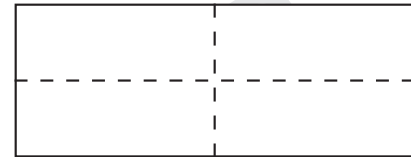   d) ⊘ = 20   ☺ = 60   ◇ = 50

SECTION D: BRAINBOX

9. In the multiplication problem given below, each letter represents a different digit. What 4-digit number is represented by GOLD?

    GOLD × 4 = DLOG

    a) 2567

    b) 2178

    c) 2076

    d) 1768

10. The perimeter of a rectangular piece of paper is 100 cm. It is cut into 4 equal rectangles as shown. What is the total of the perimeters of the four smaller rectangles?

    a) 150 cm   b) 200 cm

    c) 300 cm   d) 400 cm

SAMPLE PAPER

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