

ISFO Science 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: Scientific Reasoning** 25-Questions (2 marks each)
 - Section B: Everyday Science** 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:



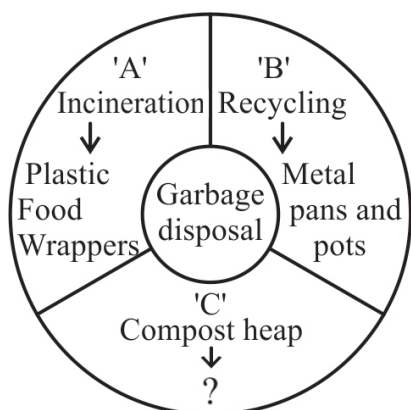
DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO

Roll No.:

Student's Name:

SECTION A : SCIENTIFIC REASONING

1. Ways of garbage disposal. Replace the question mark with suitable option.



- a) Animal droppings b) Fallen leaves
c) Glass items d) Both a and b

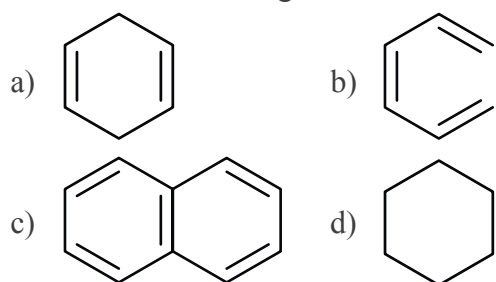
3. Read the given statements and choose the correct option.

Statement 'A' → Fleming's Left Hand Rule is used to determine the force on a current carrying conductor in magnetic field.

Statement 'B' → Fleming's Right Hand Rule is used to determine the induced current for moving conductor in magnetic field.

- a) Only statement 'A' is correct.
b) Only statement 'B' is correct.
c) Both the statements are correct.
d) Statement 'A' is correct but 'B' is incorrect.

2. Which of the following is an aromatic compound?



4. A student added copper powder into a strong acid 'x'. He observed an intense brown fume produced in the beaker. Identify the acid.

- a) Conc. HCl b) Conc. H₂SO₄
c) Conc. HNO₃ d) Dilute HCl

SECTION B : EVERYDAY SCIENCE

5. A series circuit consists of three resistors. Two of them are 1.6 k each. The total resistance is 16 k. What is the value of 3rd resistor?

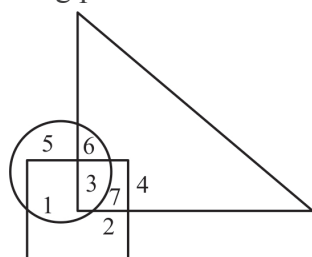
- a) 128 kΩ b) 1280 Ω
c) 12800 kΩ d) 12800 Ω

6. If a solid is a metal it must

- a) Conduct electricity
b) Have a high melting point
c) React with oxygen
b) Be soluble in water

SECTION C : LOGICAL REASONING

7. In the given diagram, circle indicates 'strong plants', rectangle indicates 'short plants' and triangle indicates 'plants'. Then the number of strong plants that are tall are ____



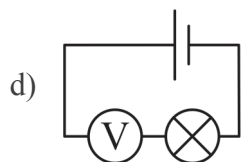
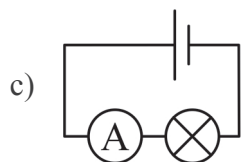
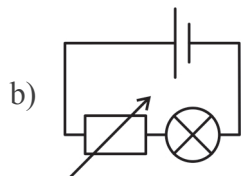
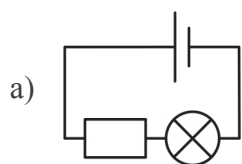
- a) 3
b) 4
c) 6
d) 7

8. Ravi started from his school towards North. After covering a distance of 8 km, he turned towards left and covered a distance of 6 km to reach his coaching centre. What is the shortest distance between his school and coaching centre?

- a) 14 km b) 12 km
c) 10 km d) 11 km

SECTION D : BRAINBOX

9. Which electric circuit is used to vary the brightness of the lamp?



10. The table lists the halogens and their appearance.

Halogens	Appearance
F	pale yellow gas
Cl	pale yellow/green gas
Br	brown liquid
I	dark purple solid
At	?

Astatine (At) would be expected to be a ____

- a) Brown gas b) Grey liquid
 c) Yellow solid d) Black solid

SAMPLE PAPER

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ANSWERS

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