

## SAMPLE PAPER SYLLABUS 2022-23



(1) Logical Reasoning

10

1

**PATTERN & MARKING SCHEME** 



Time : 1 hr.

(3) Achievers Section 5

3



#### SOF NATIONAL SCIENCE OLYMPIAD SYLLABUS

Section – 1 : Verbal and Non-Verbal Reasoning.

Section – 2 : Crop Production and Management, Microorganisms, Synthetic Fibres and Plastics, Metals and Non-metals, Coal and Petroleum, Combustion and Flame, Conservation of Plants and Animals, Cell, Reproduction and Endocrine System, Force and Pressure, Friction, Sound, Chemical Effects of Electric Current, Some Natural Phenomena, Light, Stars and the Solar System, Pollution of Air and Water. Section – 3 : Higher Order Thinking Questions - Syllabus as per Section – 2.

Total Questions : 50

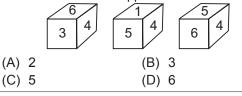
Section

No. of Questions

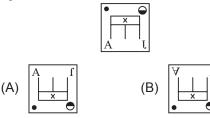
Marks per Ques.

LOGICAL REASONING

1. Three positions of a dice are shown below. What is the number opposite to 1 ?



2. Select the correct water image of the given figure.



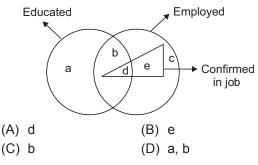
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(2) Science

35

1

 In the given Venn diagram, find the region representing persons who are educated and employed but not confirmed in job.



### SCIENCE

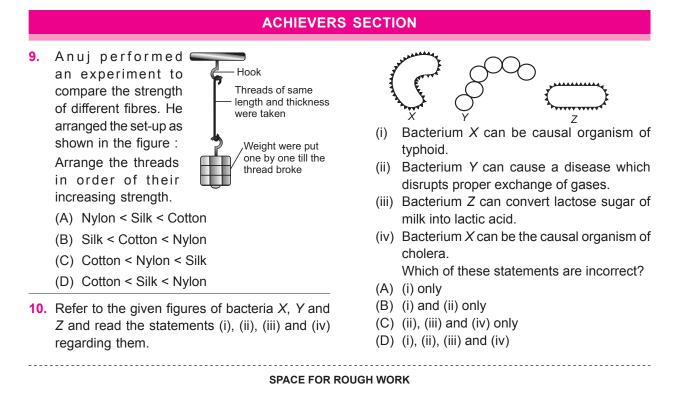
- 4. Bees which are not carrying honey fly with a flapping frequency of 440 Hz while those which are carrying honey fly with a flapping frequency of 300 Hz. The sound made by bees which are not carrying honey has
  - (A) A lower pitch (B) A higher pitch
  - (C) A smaller loudness (D) A greater loudness
- 5. The pressure of the water near the bottom of the wall forming a dam does not depend on \_\_\_\_\_.
  - (A) The depth of the water
  - (B) The cross-sectional area of the reservoir
  - (C) Density of water
  - (D) Atmospheric pressure

- 6. When Cu is exposed to moist air for a long time, which of the following is formed?
  - (A) Cu(OH)<sub>2</sub>
  - (B) CuCO<sub>3</sub>
  - (C) Both (A) and (B)

(D) Cu<sub>2</sub>O

- Which of the following on reshuffling gives the term that refers to the process of sowing seeds manually by sprinkling them on soil by hand?
  (A) INIGTIL
  - (B) GLNOPUIHG
  - (C) ATNBRDOCAIGS
  - (D) GIOWNWIN

- 8. Which of the following groups represents the bacterial diseases?
  - (A) Cholera, Tuberculosis, Malaria, Measles
- (B) Small pox, Tuberculosis, Malaria, Typhoid
- (C) Cholera, Tuberculosis, Typhoid, Measles
- (D) Cholera, Anthrax, Tuberculosis, Typhoid



### ANSWERS

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