



9th International Olympiad of Science 2017



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CLASS 8th SYLLABUS & SAMPLE QUESTIONS

Crop Production and Microorganisms, Materials, Coal and Petroleum, Conservation of Plants and Animals, Cell Structure and Functions, Reproduction, Force, Friction and Sound, Chemical Effects of Current and Light, Solar System and Some Natural Phenomenon, Pollution of Air and Water, Mental Aptitude and Reasoning.

The Actual Question Paper Contains 50 Questions. The Duration of the Test Paper is 60 Minutes.

- Which one of the following is the correct order of structural organisation of an organism?
 - Cells → Organs → Tissues → Organ systems → Organisms
 - Cells → Tissues → Organs → Organ systems → Organisms
 - Organs → Tissues → Organ systems → Organisms → Cells
 - Cells → Organs → Organ systems → Tissues → Organisms
 - None of these
- Name the cell which has been shown in the following figure.

 - Muscle cell
 - Nerve cell
 - Bone cell
 - White blood cell
 - None of these
- Which one of the following is not a member of our solar system?
 - Pluto
 - Moon
 - Halley comet
 - Orion constellation
 - None of these
- In which one of the following options, the various stages in the development of a silk moth, has been correctly arranged?
 - Egg → Pupa → Caterpillar → Silk moth
 - Egg → Caterpillar → Pupa → Silk moth
 - Egg → Silk moth → Pupa → Caterpillar
 - Egg → Silk moth → Caterpillar → Pupa
 - None of these
- The disease 'chickenpox' is caused by which one of the following microorganisms?
 - Bacteria
 - Virus
 - Protozoa
 - Fungi
 - None of these
- Match the following:

1. Solid metal	A. Sodium
2. Solid non metal	B. Bromine
3. Gaseous non metal	C. Chlorine
4. Liquid non metal	D. Sulfur

 - 1-A, 2-D, 3-C, 4-B
 - 1-A, 2-C, 3-D, 4-B
 - 1-A, 2-B, 3-C, 4-D
 - 1-B, 2-D, 3-C, 4-A
 - None of these

7. Here is a list of substances. Group them as metals and non metals. Cadmium, hydrogen, sulphur, lead, magnesium, radium, carbon.

- (A) **Metals:** Cadmium, sulphur, radium. **Non metals:** Hydrogen, lead, magnesium, carbon
- (B) **Metals:** Cadmium, sulphur, radium, carbon. **Non metals:** Hydrogen, lead, magnesium.
- (C) **Metals:** Cadmium, magnesium, lead, radium. **Non metals:** Hydrogen, carbon, sulphur
- (D) **Metals:** Cadmium, sulphur, radium, lead. **Non metals:** Hydrogen, magnesium, carbon
- (E) None of these

8. Given below is a list of substances and its density:





Substance	Density
Water	1.0 g/mL
Oil	0.80 g/mL
AB	0.88 g/mL
Mercury	8.6 g/mL

A student fills all the above substances into a graduated cylinder. Where the AB will appear after filling all substances in the graduated cylinder?

- (A) AB will appear between Oil and Water in the graduated cylinder

- (B) AB will appear between mercury and Water in the graduated cylinder
- (C) AB will appear just below the water in the graduated cylinder
- (D) AB will appear just above the mercury in the graduated cylinder
- (E) None of these

9. In which one of the following cases loudness of the sound will be maximum?

- (A) 
- (B) 
- (C) 
- (D) 
- (E) None of these

10. Which one of the following microorganisms is an example of algae?

- (A) Lactobacillus
- (B) Rhizobium
- (C) Chlamydomonas
- (D) Entamoeba
- (E) None of these

ANSWERS

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