



Duration : 60 Min.

Total Ques. : 50

Paper Type : S 1

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GLOBAL COMPETITION SOCIETY

**8
CLASS**

SAMPLE Q.P : GLOBAL SCIENCE OLYMPIAD (GSO)

1. The Actual Question Paper Contains 50 Questions.
2. Each question carry an equal marks of 2 against 50 question
3. The Duration of the Test Paper is 60 Minutes

1. Which of the following is/are incorrect statement (s) regarding manure ?

- (i) Manure enhances the water holding capacity of the soil.
- (ii) Manure is nutrient specific i.e. supply a particular desired nutrient.
- (iii) Manure decreases the number of friendly microbes.
- (iv) Manure improves the texture of the soil.
- (v) Manure is prepared by the decomposition of dead plant and animal matter.

- (A) (i), (iii) and (v) only
(B) (v) only
(C) (ii), (iii), (iv) and (v) only
(D) (ii) and (iii) only
(E) None of these

2. Which of the following statements about plastics are true ?

- (i) All plastics do not have same arrangement of monomer units.
 - (ii) Melamine resists fire and can tolerate heat better than other plastics.
 - (iii) Plastics with cross-linked monomers are also known.
 - (iv) Plastics have limited applications.
- (A) (i) and (iii) only (B) (iii) and (iv) only
(C) (i), (ii) and (iii) only (D) (i), (iii) and (iv) only
(E) None of these

3. Which of the following is not a characteristic of plastics ?

- (A) Plastics are poor conductors of heat.
(B) Plastics are insoluble in water.
(C) Plastics are non- inflammable.
(D) Plastics do not react with water and air.
(E) None of these

4. Which of the following statements is incorrect ?

- (A) Gold and silver are the most malleable and ductile metals.
(B) All metal are hard and strong.
(C) Mercury and gallium are metal which exist in liquid state at room temperature.
(D) Most of the metals have high specific gravities.
(E) None of these

5. Read the following statement carefully and identify X, Y, and Z respectively ?

- (i) X is stored under kerosene.
 - (ii) Y catch fire on exposure and stored in water.
 - (iii) Z reacts with steam.
- (A) Na, Mg, Cu (B) Na, P, Fe
(C) Cu, Zn, K (D) Zn, Cu, Na
(E) None of these

6. Destructive distillation of coal is carried out by heating coal strongly to 1000°C in the absence of air. The various useful products obtained are

- (A) Crude oil, kerosene, naphtha and heavy oil
(B) Coke, coal gas, coal tar and ammonium compounds
(C) Coal gas, petroleum gas and lignite
(D) Both (A & B)
(E) None of these

7. In fractionating column, various fractions are obtained at various heights of the column. As the vapours reach at a height where temperature is equal to or just below the boiling point of that fraction, it will
- Condense to form a liquid
 - Remain in gaseous state
 - Condense to form a solid
 - Escape from the column
 - None of these
8. Which of the following represents an incorrect match ?
- Coal gas - Methane - Hydrogen
 - LPG - Propane - Butane
 - Producer gas - Carbon - Nitrogen
 - CNG - Compressed methane
 - None of these
9. Which of the following does not represent characteristic of a good fuel ?
- It should have a high calorific value.
 - its ignition temperature should be low but well above the room temperature.
 - It should have a high rate of combustion.
 - It should be fairly cheap and safe to handle and transport.
 - None of these
10. What is the principle of soda fire extinguisher ?
- Carbon dioxide produced cuts off the supply of oxygen by covering the fire like a blanket.
 - Water produced cuts off the supply of oxygen covering the fire.
 - Acid present in the container reacts with fire.
 - Nitrogen gas produced cuts off the supply of oxygen by covering the fire.
 - None of these
11. Which of the following represents the correct increasing order of calorific value of the given fuels ?
- Hydrogen < LPG < Biogas < Cow dung cake < Coal
 - Cow dung cake < Biogas < LPG < Coal < Hydrogen
 - Cow dung cake < Coal < Biogas < LPG < Hydrogen
 - Hydrogen < Cow dung cake < LPG < Biogas < Coal
- (E) None of these
12. Which of the following groups consists of endangered and vulnerable species respectively ?
- Cheetah and Jaguar
 - Hog deer and Leopard
 - Red Panda and Asian elephant
 - Labrador duck and Blue whale
 - None of these
13. Which of the following organelles differentiate between plant cell and animal cell ?
- | | |
|-----------------|--------------------|
| (i) Cytoplasm | (ii) Nucleus |
| (iii) Cell wall | (iv) Large vacuole |
- (i) and (ii) only
 - (i), and (iii) only
 - (ii) and (iv) only
 - (iii) and (iv) only
 - None of these
14. What is the major difference between a human skin cell and a human egg cell ?
- The egg cell has twice as many chromosomes as the skin cell.
 - The egg cell has half as many chromosomes as the skin cell.
 - The skin cell has no genetic information in its chromosomes.
 - Only the egg cell has a nucleus.
 - None of these
15. Thyroxine controls _____ in frogs and the development of _____ during embryonic development of other vertebrates. Thyroxine production requires the presence of _____ in diet.
- Select the correct sequence of word to complete the above passage.
- Development, Circulatory system, Iodine
 - Metamorphosis, Circulatory system, Calcium
 - Development, Nervous system, Iron
 - Metamorphosis, Nervous system, Iodine
 - None of these