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SUMMATIVE ASSESSMENT-I, 2015-16

Subject : Science

Time : 3 Hrs.

CLASS : VIII

M.M. : 90

General Instructions :

- (1) The question paper is divided into three sections :
Section A – Physics, Section B– Chemistry and Section C– Biology.
- (2) Use separate sheets for the three sections. Each section is of 30 marks.
- (3) All questions are compulsory.
- (4) Draw neat and well labelled diagrams wherever necessary.

[Section-A : Physics]

Choose the correct option :

1. Sound can travel through : [1]
(a) Solids and liquids only (b) Gases only
(c) Solids, liquids and gases (d) Vacuum only
2. The strength of a force is expressed by : [1]
(a) Direction (b) Magnitude
(c) Frequency (d) Both a and b
3. Distilled water is a : [1]
(a) Good conductor
(b) Bad conductor
(c) Neutral conductor
(d) Semi conductor of electricity
4. What is chemical effect of electric current ? [1]
5. What is the function of larynx ? [1]

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6. How can friction be reduced ? [1]
7. Give reasons : [2]
- (a) Friction helps us to write.
 - (b) We do not get crushed by atmospheric pressure. *SP*
8. Name any two contact forces and any two non-contact forces. [2]
9. (a) Define frequency of sound. [3]
- (b) A pendulum oscillates 40 times in 5 sec. Find its frequency.
10. Give one example to justify that : [3]
- (a) Rolling friction is less than sliding friction.
 - (b) A force can change the shape of an object.
 - (c) Sound is produced by a vibrating body.
11. Differentiate between : [3]
- (a) Noise and Music
 - (b) Pressure and Force.
12. What is Noise Pollution ? How can it be reduced ? [3]
13. Fill in the blanks with suitable words : [3]
- (a) Forces in the same direction acting on an object are
 - (b) Friction depends on the of the surfaces in contact.
 - (c) are good conductors of electricity.
14. (a) What is electroplating ? [5]
- (b) Describe through an activity, purification of copper by electroplating Support it with a diagram.

[Section-B : Chemistry]

1. Tick the most appropriate option amongst the following : [3]
- (a) Rayon is different from truly synthetic fibres because :
- (i) it has a silk-like appearance
 - (ii) it is obtained from wood-pulp
 - (iii) its fibres can be woven like those of natural fibres
 - (iv) it can be dyed in wide variety of colours.
- (b) The element whose oxide will turn red litmus solution to blue will be :
- (i) Sodium
 - (ii) Sulphur
 - (iii) Carbon
 - (iv) Phosphorus
- (c) Which of the following is not a characteristics property of iron ?
- (i) malleability
 - (ii) brittleness
 - (iii) ductility
 - (iv) sonorousness
2. Name the gas evolved when a metal reacts with water. [1]
3. Synthetic fibres are not suitable in summers, why ? [1]
4. Write the chemical composition of the rust formed on iron-metal ? [1]
5. What happens when a copper-vessel is exposed to moist air for a long-time ? [2]
6. What are the various types of plastics ? Give one example of each type of plastic. [2]
7. (a) A non-metal, which is used in water-purification is [1]
- (b) A metal, which exists in liquid state at room-temperaure is [1]
- (c) Name the property which enables metals to be drawn into wires..... [1]
8. Explain why, thermoplastics become soft on heating but thermosetting plastics do not become soft on heating. Draw labelled diagrams to illustrate your answer. [3]

9. What happens when : Write word equations wherever applicable : [3]
- (a) Magnesium ribbon is burnt
 - (b) Metals reacts with acids.
 - (c) Coal and sulphur are tapped with hammer.
10. What are the various ways to save the environment from excessive plastic wastes ? (Any 3) [3]
11. What are displacement reactions ? Write a displacement reaction in support of your answer. [3]
12. (a) Compare the chemical properties of metals and non-metals in tabular form (any two). [2]
- (b) Explain why, plastic containers are preferred for storing food ? [2]
 - (c) Sodium metal is stored under kerosene, why ? [1]

[Section-C : Biology]

1. Choose the most appropriate answer : 1×4=4
- (a) Rust of wheat is caused by :
- (i) Bacteria
 - (ii) Virus
 - (iii) Fungi
 - (iv) Protozoa
- (b) These are Kharif crops :
- (i) Paddy and Maize
 - (ii) Maize and Pea
 - (iii) Paddy and Gram
 - (iv) Pea and gram
- (c) Species on the verge of extinction are called :
- (i) Endangered species
 - (ii) Endemic species
 - (iii) Extinct species
 - (iv) Both (i) and (ii)

(d) The term used for variety of living organisms in a specific area is

(i) Biosphere

(ii) Biodiversity

(iii) Flora and Fauna

(iv) Biosphere reserve

2. Define irrigation. [1]
3. Why is paddy not grown in winter season? [1]
4. What is weeding? Why is it necessary to remove weeds from fields? [1+1=2]
5. How can you identify the food whether it is spoilt or not? [2]
6. Define the following terms : [1×3]3
- (a) Red Data Book
- (b) Migration
- (c) Endemic Species
7. What are antibiotics? Write any two precautions taken while taking antibiotics. [1+2=3]
8. Explain how fertilizers are different from manures? (Write any two points). Give one example of a fertilizer. [2+1=3]
9. Explain how deforestation leads to reduced rainfall? [3]
10. Why should paper be saved? Write two ways by which you can save paper. [1+2=3]
11. (a) What do you understand by the term 'Communicable diseases'?
- (b) Name a disease caused in humans by the following microbes :
- (i) Bacteria
- (ii) Virus
- (c) Name the carrier of the Malaria.
- (d) How can we control the spread of malaria? (Write any 2 points) [1+2+1+1=5]