

St. Anthony's  
Kupika  
VIII

Summative Assessment - I 2016-17  
Subject - Science  
Class - VIII  
Set - A

Time : 3 hrs

M.M.-90

**General Introductions-**  
i. All questions are compulsory.  
ii. Marks of each question are indicated against the question.

**Physics -**

Q-1 Answer in a line or two. (1x3=3)

- i. ✓ What is an epicentre?
- ii. ✓ What is refraction?
- iii. ✓ Name the subatomic particles present in an atom.

Q-2 Answer briefly- (2x4=8)

- i. ✓ Explain the concept of multiple reflections.
- ii. ✓ State the Laws of reflection.
- iii. ✓ What are the uses of an electroscope?
- iv. ✓ What precautions should you take during a thunderstorm?

Q-3 Answer in detail- (3x3=9)

- i. ✓ How are earthquakes caused? What are its possible effects?
- ii. ✓ Explain defects of vision and their correction with diagram.
- iii. ✓ With the help of an experiment, demonstrate conductivity through liquids.
- iv. ✓ Explain the process of electroplating with the help of an activity. (3)
- v. ✓ Why are handles of electrical irons made of plastic or Bakelite? (2)



Q-5 Multiple Choice Questions - (1x5=5)

- i. ✓ Electric current flows due to the movement of:  
(a) Protons                      (b) neutrons                      (c) free electrons
- ii. ✓ The human eye forms image of an object at the \_\_\_\_\_.  
(a) Retina                      (b) cornea                      (c) blind spot
- iii. ✓ For two parallel mirrors facing each other, the number of images formed are  
(a) 20                      (b) 10                      (c) 6                      (d) infinite
- iv. ✓ What kind of a charge does a proton have?  
(a) No charge                      (b) positive                      (c) negative
- v. ✓ In which of the following process is physical contact not required.  
(a) Friction                      (b) induction                      (c) conduction

**Chemistry**

Q-1 Answer in a line or two (1x3=3)

- i. ✓ What is galvanisation?
- ii. ✓ What is carboniferous age?
- iii. ✓ Name two blended fibres.

Q-2 Answer briefly- (2x4=8)

- i. Differentiate between thermoplastic and thermosetting plastics. (2 points)

- ii. Name any four fractions of petroleum with their uses.
- iii. Enumerate the measures that can be adopted to conserve energy. (any four)
- iv. Write the properties and uses of nylon and polyester. *1 use each*

Q-3 Answer in detail-

*1 property each*

(3x3=9)

- i. What is displacement reaction? What happens when an iron nail is dipped in solution of copper sulphate? Write the chemical equation also.
- ii. What is destructive distillation? Write the products of destructive distillation of coal and their uses.
- iii. How can we as responsible citizens of our country help to protect our environment from plastic related pollution?

Q-4 (a) Why do copper vessels develop a greenish layer when exposed to moist air? (2)

(b) What do you think was the need to make alloys? How are they advantageous as compared to pure metals? (3)

Q-5 Multiple Choice Questions -

(1x5=5)

- i. Which of the following element is used in vulcanisation of rubber?  
(a) Graphite (b) sulphur (c) calcium
- ii. Which of the following is used in the manufacture of naphthalene?  
(a) Coal tar (b) coke (c) coal gas (d) carbon
- iii. Which of the following is not a fossil fuel?  
(a) Natural gas (b) sunlight (c) petroleum (d) coal
- iv. Which of the following is a natural fibre?  
(a) Coir (b) terry wool (c) rayon (d) nylon
- v. Which of these is a thermosetting plastic?  
(a) Polyvinyl chloride (b) Bakelite (c) polythene (d) all of these

Biology -

Q-1 Answer in a line or two-

(1x3=3)

- i. What are Rabi crops?
- ii. Define a eukaryotic cell.
- iii. Name an anticancer drug. *COO used*

Q-2 Answer briefly-

(2x4=8)

- i. List four ways in which forests are useful to us.
- ii. How are biosphere reserve different from national parks?
- iii. Why is drip irrigation excellent for areas like Rajasthan?
- iv. How do weeds affect crops?

Q-3 Answer in detail-

(3x3=9)

- i. With the help of diagram, explain nitrogen cycle.
- ii. State the key features of the 'Cell Theory'.
- iii. What is poaching of animals? How can it be checked?

Q-4 (a) Draw out a comparison between an animal cell and a plant cell. *(table) (No diagrams)*

(b) Draw a neat and well-labelled diagram of an animal cell.

(2)

Q-5 Multiple Choice Questions -

(1x5=5)

- i. Which organelle is associated with energy production?  
(a) Chloroplast (b) mitochondria (c) vacuole

- ii. Which of the following data books contains a record of classification of all species into different threat categories.
- (a) Black                      (b) red                      (c) grey                      (d) violet
- iii. Plant species of a particular region is called
- (a) Fauna                      (b) flora                      (c) endangered species                      (d) none of these
- iv. Which of the following is a leguminous crop?
- (a) Rice                      (b) soya bean                      (c) wheat                      (d) maize
- v. What should be removed from the produce just before its storage?
- (a) Fungicide                      (b) grain                      (c) moisture                      (d) pesticide