

SUMMATIVE ASSESSMENT-II, 2017

SCIENCE

Class VII

Time : 3 hrs.

M.M. : 100

Date – 17.02.2017 (Friday)

Name of the student _____ Section _____

General Instructions:

- All the questions are compulsory.
- Write neatly and draw diagrams wherever necessary.
- Marks are allotted against each question.
- Question number 8, part (i) is value based question and is compulsory.
- Please check that this question paper contains 03 printed pages.

Q1. Fill in the blanks. (1×6 = 6)

- A closely wound length of wire is called a _____.
- A magnifying glass is a _____ lens.
- About 50% of our agricultural needs are met by _____.
- The decaying organic matter present in soil is called _____.
- The dark radiating rows under the head of a mushroom are called _____.
- The whole process of obtaining silk starting from the silk moth is called _____.

Q2. Choose the correct option. (1×6 = 6)

- In which of the following processes is light absorbed?
a) sublimation b) burning c) rusting d) photosynthesis
- To make a battery of 9 volts, how many 1.5 V cells are needed?
a) 5 b) 6 c) 3 d) 4
- If we mix lights of the colours of the rainbow, we will get
a) pink light b) brown light c) colourless light d) black light
- Rose and lemon are grown from
a) tubers b) stem cuttings c) bulbs d) leaf buds
- The hard layer of rocks below the C horizon is called
a) bottom rock b) substratum c) bedrock d) gravel
- The process of eating and being eaten is called a
a) extinct b) food web c) food chain d) all of these

Q3. Give one word. (1×6 = 6)

- Twisting of raw silk.
- A path along which an electric current can flow.
- The breaking down of rocks into small particles.
- The transference of pollen grains from the anther to the stigma.

- v) A reaction in which two or more reactants add up to form a product.
- vi) A tank which allows water to seep into the soil and recharge groundwater.

Q4. Give reasons for the following.(any three) (2×3= 6)

- i) Seeds need to be dispersed.
- ii) We use soft iron core in an electromagnet.
- iii) Cross breeding of sheep is necessary in India.
- iv) Long and thin tungsten filament is used in a bulb.
- v) A bulb gets warmer than the wires that connect it to a battery.

Q5. Define the following. (any five) (2×5= 10)

- i) Physical change
- ii) White light
- iii) Unisexual flower
- iv) Spun silk
- v) Reflection
- vi) Extinct

Q6. Draw well labelled neat diagrams. (any two) (3×2= 6)

- i) A short circuit.
- ii) Closed and open circuit diagram.
- iii) Ray diagram showing the reflection of light on a plane mirror.
- iv) Image formation by concave mirror when the object is closer than the focus.

Q7. Answer the following in not more than 20 words. (any six) (2×6= 12)

- i) Mention two uses of a concave mirror.
- ii) Why convex mirrors are used as rear-view mirrors?
- iii) How do forests help to maintain the balance of gases in the air?
- iv) What role does oxygen present in the air play in the formation of soil?
- v) How was groundwater utilised traditionally, and how is it used now?
- vi) Mention two problems associated with the heating effect of electric current.
- vii) What is a larva? Give an example from the sources of animal fibres.

**Q8. Answer the following in not more than 40 words. Part (i) is compulsory. (3×6= 18)
Select any five more.(any six)**

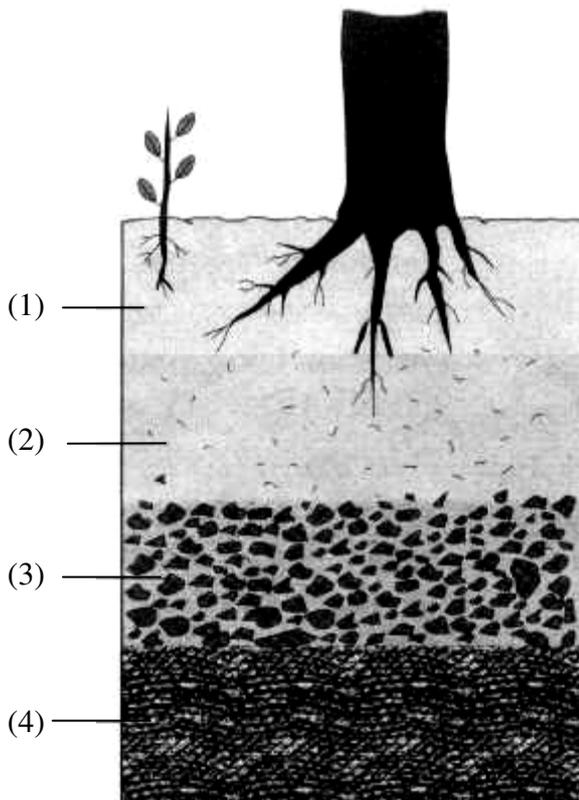
- i) Vibha sees her friend Garima ironing clothes with an electric press. Garima was barefooted. She advised Garima to wear rubber slippers. Garima followed her advice.
 - a) What values are shown by Vibha?
 - b) Suggest any one method to save electricity at home.
 - c) Why should we wear rubber slippers while working with electrical devices?
- ii) How does rain help in the formation of soil?
- iii) How do insects help to bring about pollination?
- iv) Why is the image formed by a pinhole inverted?

- v) Mention three causes for the scarcity of water in our country.
- vi) Why does a Newton's disc appear white when it is rotated?
- vii) Discuss why the dissolving of salt in water is a physical change.
- viii) What is an electromagnet? Mention two properties of an electromagnet.

Q9. Answer the following in not more than 100 words.(any five)

- i) Discuss the chemical properties of wool. (5×5= 25)
- ii)
 - a) What is electrical resistance?
 - b) On what does the resistance of a piece of material depends?
 - c) How does resistance affect current?
- iii) What is refraction? Explain with an example with the help of a diagram.
- iv) What are real and virtual images? What are the differences between them?
- v) Describe the features of fruit/seeds dispersed by animals and the wind with the help of diagram.
- vi) Describe with the help of diagram what happens after a pollen grain reaches the stigma.
- vii)
 - a) What are the organism living in the soil called?
 - b) How do they help to improve the fertility of the soil?

Q10. a) Label the parts given below from 1 to 4. (1×5 =5)



- b) Give suitable heading for the above diagram.

