

Second Term Summative Assessment - 2013-2014

Sample Question Paper

Science

Class 7

Max Marks: 45

Time: 2 hrs.

General Instructions:

All questions are compulsory

Questions 1 to 5 are multiple choice questions and carry 1 mark each. Choose the appropriate option and write the answer in the answer sheet.

Question 6 to 10 carry 1 mark each and must be answered in 1 or 2 sentences.

Questions 11 to 19 carry 2 marks each and must be answered in 2 or 3 sentences.

Questions 20 to 23 carry 3 marks each and must be answered in 5 or 6 sentences each.

Question 24 carries 5 marks and must be answered in 7 or 8 sentences each.

1. Growing trees along the roadside will
 - (a) Hold on soil on the sides of the road.
 - (b) Make travel along the roads safer.
 - (c) Keep the temperature along the roads much higher.
 - (d) Keep wildlife away from the roads.

2. Which of these is not a modification for reproduction?
 - (a) Potato tuber
 - (b) Rhizome
 - (c) Runner
 - (d) Prop root

3. The speed of a moving object means
 - (a) How far it goes.
 - (b) How long it goes on moving.
 - (c) How far it goes in a certain time.
 - (d) None of these.

4. An incident ray strikes a plane mirror at an angle of 15° with the mirror. The angle between the reflected ray and the incident ray is
- (a) 15°
 - (b) 30°
 - (c) 150°
 - (d) 140°
5. Which of these is a salt that does not cause hardness in water
- (a) Na_2SO_4
 - (b) $\text{Ca}(\text{HCO}_3)_2$
 - (c) CaSO_4
 - (d) MgSO_4
6. Define fertilization.
7. Name one disease spread through blood transfusion.
8. Write one importance of soil bacteria.
9. Why is the starting point of a food chain always a plant?
10. Only _____ percentage of natural water is available for human consumption.
11. State the laws of reflection.
12. Draw a circuit diagram showing a collection of six cells connected with three bulbs which in turn are connected in a parallel circuit with each other. Each bulb has its own switch. Show the arrangement in such a way that one bulb glows and the other two do not.
13. An athlete covers 1500 m in 4 minutes. Calculate his speed in m/s and km/hr.
14. Define excretion. Name the different excretory organs of the human body.
15. Distinguish between physical and chemical weathering.
16. Explain the following terms: sewage, sludge.

17. Which of the following statements are true? Rewrite the false statements after correction.

- (a) Water which looks clean and sparkling is suitable for drinking.
- (b) Soap lather well in soft water.
- (c) Sodium sulphate is one of the substances which cause hardness in water.
- (d) Rainwater, as it falls, is always pure.

18. Which mirror would be better on your cycle: convex or concave? Explain.

19. What are the functions of the following: heart, kidney?

20. Draw a neat diagram of a section of a flower, naming and labelling parts showing the following functions.

- (a) Landing place for pollen grains.
- (b) Contains eggs.
- (c) Male part that produces pollen.
- (d) Grows into a fruit.
- (e) Protects flower in the bud state.
- (f) Brightly coloured part that attracts insects.

21. Name the different types of cells found in blood. Give one function of each.

22. Which are the best soil types for growing plants and why?

23. Both a mirror and a page of this book reflect light. You can see an image in a mirror but not in the book. Explain.

24. Answer each of the following briefly.

- (a) Why is it not good to wash clothes in hard water?
- (b) In what ways could the natural water cycle be affected if large forests are cut down?
- (c) List at least four steps by which you can help to conserve water in your home.