

Science Test – VII

DATE: 28.10.13

Max. Marks: 50

Time: 1.00 Hrs.

NOTE: Attempt all the Questions.

Section A



All questions carry 1 mark each.



Q5 & Q7 carry half marks for each of their part.

Ques 1. What is light? What is meant by rectilinear propagation of light?

Ques 2. What are gametes?

Ques 3. Rahul used a lens for burning a paper in sun by focussing its light over it. While experimenting in lab, he also found that both real & virtual images can be formed using it. Guess the type of lens he was using.

Ques 4. Name the organs which frog use for respiration when inside a lake or pond.

Ques 5.

- Virtual images in some cases can be traced on a screen. (true/false)
- Rainbow formed after rain is due to scattering of sunlight by droplets of water present in atmosphere. (true/false)
- Sepals of a flower serve the purpose of attracting the insects towards flower so that pollination can occur. (true/false)
- Concave lens cant form a real image. (true/false)

Ques 6. Name any two types of Asexual Reproduction in animals.

Ques 7.

- Amoeba respire via _____ .
- Breathe rate is describe as _____ .
- Alcohol is formed as one of the product in _____ respiration.
- Seeds are formed by development of _____ .
- Tissue culture is also called _____ .



- _____ is formed initially after fertilisation process.

Ques 8. What is an image?

Ques 9. What is meant by dispersal of seeds?

Ques 10. Name two different plants which have stem & roots as vegetative parts.

Section B

-  All questions carry 3 marks each.
-  All different parts of a question are equally weighted.

Ques 11. Define

- Reflection
- Refraction
- Absorption of Light.

Ques 12. What are the two processes involved in the process of Respiration? Define each.

Ques 13. Define each & every step involved in process of Fertilization in flowers.

Ques 14. Quote the main differences between Sexual and Asexual Reproduction methods of reproduction.

Ques 15. Name all the organs involved in the process of Respiration. Also describe the movement of Diaphragm during breathing.

Ques 16. Draw diagrams showing

- Binary fission in bacteria
- Budding in yeast

Ques 17. What type of image is obtained when a 'convex lens' is held at a few centimetres from an object? What change is observed when lens is gradually moved away from it?

Ques 18. Describe the following :

- Vegetative propagation
- Grafting

Ques 19. After having long hours of exercises we usually develop cramps. The best way to relief is via massage. What is the reason for development of cramps? How is massage actually helpful?

Section C

🚦 All questions carry 5 marks each.

Ques 20. Draw a well labelled diagram of a flower showing all the following parts:

- ✓ Sepals
- ✓ Petals
- ✓ Pistil (style, stigma & ovary)
- ✓ Stamen (filament & anthers)

Ques 21. Show with the help of proper diagrams how a parallel beam of light

- ✓ Converges on passing through a convex lens.
- ✓ Diverges on passing through a concave lens.

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