

Time: 2 Hour

Total Marks: 50

Class : X

Subject : Science and Technology - II

MCQ SINGLE CORRECT

1. Why are growing roots a suitable material to study mitosis?

(a) The cells are actively dividing when the roots are growing.	(b) Roots are suitable material for mounting	(c) Roots can easily show mitosis the other parts do not show.	(d) Onion roots are easily available for the experiment.
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2. The stain solution used in the above experiment stains _____

(a) cytoplasm	(b) chromosomes	(c) Spindle fibres	(d) Entire nucleus
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3. What is a Yeast?

(a) Bacteria	(b) Protista	(c) Fungus	(d) Sponge
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4. What is the meaning of sporogenesis?

(a) Formation of spores	(b) Release of spores	(c) Formation of sporangium	(d) Bursting of sporangium
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5. What is binary fission?

(a) Meiotic division	(b) Mitotic division	(c) Both mitosis and meiosis	(d) Type of sexual reproduction
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TRUE/FALSE

6. During menstruation there is need of rest along with special personal hygiene.

(a) True	(b) False
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7. Many people come together to establish a new forest but a single person, if determined can destroy the entire forest!

(a) True	(b) False
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FILL IN THE BLANKS

8. Endoskeleton of Cyclostomata animals is _____

VERY SHORT DESC

9. Write the functions of the following organs:
Penis

10. In which fields there is considerable progress due to biotechnological research?

All The Best!!!

SHORT DESC - 25 WORDS

(Attempt any 5)

11. Sketch, label and classify the following organisms:
Leech
12. A bird building nest on a tree feed upon the fishes in a nearby pond. Whether this bird is part of both i.e. tree as well as pond ecosystem?
13. What is the role of chromosomes in cell division?
14. Label the diagram below? Which phase of cell division is seen in the diagram?
15. Name the following : Any two sexual diseases.
16. Sketch, label and classify the following organisms:
Liverfluke

MED DESC - 50 WORDS

(Attempt any 5)

17. Indians should follow family planning for controlling the population.
18. Animals like whale, walrus live in water (ocean). Whether they are included in pisces or Mammalia?
19. What do you mean by haploid (n) cell?
20. What were the objections raised against Darwinism?
21. Write short note on : Disaster Management Act 2005
22. Write down the reasons, effects and remedial measures taken for any two disasters experienced by you.

LONG DESC - 100 WORDS

(Attempt any 1)

23. Write the information of any three genetically modified crops?
24. Which precautions are necessary for proper decomposition of domestic waste?