

Total No. of Pages : 3

Register Number :

5266

Name of the Candidate :

B.Sc. DEGREE EXAMINATION DECEMBER 2013.

ZOOLOGY

(FIRST YEAR)

Group -B - Ancillary

(PART - III)

550/561 - BOTANY

(Common with B.Sc. Chemistry)

Time : Three hours

Maximum : 100 marks

SECTION A

Answer any TEN questions.

(10 × 3 = 30)

All questions carry equal marks.

Explain the following :

1. Capsule.
2. Basidia
3. Epipetalous
4. Racemose inflorescence
5. Crossing over
6. Reduction division
7. Microsporangium
8. Meristem
9. Cytokinins
10. Food Chain
11. Pili
12. Lysosome

13. Pulses
14. Spikelet

SECTION B

Answer ALL questions.

(5 × 8 = 40)

All questions carry equal marks.

15. (a) Describe the life cycle of a virulen bacteriphage.

Or

- (b) Explain the asexual reproduction in *Albugo*.

16. (a) Describe the moss capsule which you have studied.

Or

- (b) Describe the structure of *Lycopodium* cone/Strobili.

17. (a) Write the outline of Benthem and Hooker's classification.

Or

- (b) Write the distinguishing characters of Euphorbiaceae.

18. (a) Differentiate the Prokayotic cell from Eukaryotic cell.

Or

- (b) Describe the primary structure of dicot stem.

19. (a) Give an account of biological nitrogen fixation.

Or

- (b) Give an account of CALVIN CYCLE.

SECTION C

Answer any THREE questions not exceeding 500 words.

(3 × 10 = 30)

All questions carry equal marks.

20. Describe the sexual reproduction of *Sargassum*.

21. How does *Cycas* reproduce sexually?
 22. Explain the structure and function of mitochondria.
 23. Describe the development of male gametophyte in higher plants.
 24. Write essay on pollution and its control measures.
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