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(Pages : 2)

Reg. No. 1729

Name Daishe

**B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, NOVEMBER 2017**

**First Semester**

**Core Course I—BASIC LIFE SCIENCES**

(For B.Sc. Biotechnology)

[2013–2016 Admissions]

Time : Three Hours

Maximum Marks : 80

**Part A (Short Answer Questions)**

*Answer all questions.*

*Each question carries 1 mark.*

1. What is CO<sub>2</sub> fixation ?
2. Write about NADP.
3. Name two digestive enzymes.
4. What is endosperm ?
5. What is ATP ?
6. Name an anticoagulant.
7. What is vernalization ?
8. What is double fertilization ?
9. What is syncarpous condition ?
10. Explain glomerular filtration.

(10 × 1 = 10)

**Part B (Brief Answer Questions)**

*Answer any eight questions.*

*Each question carries 2 marks.*

11. What is lymphatic system ?
12. Write a note on food reserve.
13. What is blastula stage ?
14. Explain fatemap.
15. What is photoperiodism ?

**Turn over**

16. Mention different types of respiration.
17. Explain Coagulation.
18. What is oxidative phosphorylation ?
19. Explain significance of transpiration.
20. Illustrate structure of haemoglobin.
21. Write a note on functions of kidney.
22. Explain structure of monocot embryo.

(8 × 2 = 16)

### Part C (Short Essay Type Questions)

*Answer any six questions.*

*Each question carries 4 marks.*

23. Write an account on hormonal co-ordination.
24. Explain cyclic electron transport chain.
25. Write about normal and abnormal constituents of urine.
26. Illustrate glycolysis.
27. Mention different types of pollination.
28. Explain structure and function of digestive system.
29. Mention role of macro and micro elements.
30. Write about blood clotting disorders.
31. Explain major plant movements.

(6 × 4 = 24)

### Part D (Long Essay Type Questions)

*Answer any two questions.*

*Each question carries 15 marks.*

32. Write an account on circulatory system.
33. Explain megasporogenesis.
34. Describe Dark reaction.
35. Explain spermatogenesis and Oogenesis.

(2 × 15 = 30)