

Q.P. Code – 56731

**Final M.Sc. Degree Examination
OCTOBER/NOVEMBER 2014
(Directorate of Distance Education)**

**Botany
(DPB 510) Paper V – PLANT PHYSIOLOGY**

Time : 3 Hours]

[Max. Marks : 75/85

Instructions to Candidates :

- 1) Answer **all** questions.
- 2) Repeaters shall answer questions from Section A, B and C only (Marks 75).

SECTION – A

I. Answer any **SEVEN** of the following :

7 × 3 = 21

1. Cohesion mechanism
2. Growth kinetics
3. Dormancy
4. Osmosis
5. Oxidative phosphorylation
6. Abscissic acid
7. Fermentation
8. Florigen
9. Water stress
10. Postulates of cell

SECTION – B

II. Write short notes on any **THREE** of the following :

3 × 8 = 24

11. Symptoms of nutrient deficiency in plants.
12. Biological clock in nature.

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13. Patterns of growth and development in plants.
14. Factors affecting photosynthesis.
15. Pentose phosphate pathway.

SECTION – C

III. Answer any **TWO** of the following :

2 × 15 = 30

16. Differentiate between C₃ and C₄ cycle of carbon fixation.
17. Enumerate the role of phytohormones in agriculture.
18. Describe stomatal mechanisms.
19. Explain the mechanism of low temperature response in plants.

SECTION – D

This Section shall be answered only by freshers having 85 marks as paper maximum in addition to Section A, B and C.

IV. Answer any **ONE** of the following :

1 × 10 = 10

20. Explain the mechanism of diffusion and water potential
 21. Describe Krebs cycle.
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