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BOH 402

First Semester M.Sc. Degree Examination, December 2018
(CBCS)
BOTANY
Plant Biochemistry
(Hard Core)

Time : 3 Hours

Max. Marks : 70

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

(3×10=30)

(Each answer **not** exceeding **5** pages)

- 1) Describe the chemical composition of plant cell membranes.
- 2) Write on the classification and chemistry of carbohydrates.
- 3) Explain the structure of proteins.
- 4) Give an account on the biosynthesis and distribution of terpenes.
- 5) Write in detail on the biological nitrogen fixation.

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

(6×5=30)

(Each answer **not** exceeding **3** pages)

- 6) Passive transport
- 7) HMP pathway
- 8) β Oxidation
- 9) Vitamin C
- 10) Signal transduction in prokaryotes
- 11) Nitrate to nitrite conversion
- 12) Biosynthesis of purines
- 13) Calcium-calmodulin complex.

P.T.O.



III. Write short notes on **any five** of the following :

(5×2=10)

(Each answer not exceeding 1 page)

- 14) Antiport
 - 15) Disulphide bond
 - 16) Cobalamine
 - 17) Methamoglobinemia
 - 18) Membrane asymmetry
 - 19) Phosphatases
 - 20) Vacuolar ATPase.
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