## 2019

( November )

BOTANY

(Major)

Course: 505

## ( Functional and Chemical Biology )

Full Marks: 48
Pass Marks: 19/14

Time: 2 hours

The figures in the margin indicate full marks for the questions

- 1. (a) Choose the correct answer of the following: 1×3=3
  - (i) Auxin / Gibberellin / Abscisic acid is the growth inhibiting hormone.
  - (ii) Glycosidic bonds are seen in cellulose / protein / cholesterol.
  - (iii) Fat / Amino acid / Chlorophyll /
    Terpenoid is a secondary
    metabolite.

Fill in the blanks:

Simple linide are

(b)

	(9)	acids with
	(ii)	Conjugated protein consists of amino acids and a
	(iii)	Nucleotide without a is called nucleoside.
	(c) W	rite short notes on the following: 3×3=9
	(i)	Functions of DNA
	(ii)	Importance of secondary metabolites
	(iii)	Storage products in plants
2.		are nucleic acids? Write about the
	differen	nt types of RNAs with their functions.
		This conclusion in the control of the 2+7+2=11
		anche Or make the second

3. What are auxins? Write briefly the role of auxin in the growth of plants.

3+7=10

What are lipids? Mention different types of lipids. Give a brief account of the biological

functions of lipids.

Or

What are polymeric substances in plants?
Give a brief account of polysaccharides
mentioning their functions.

2+4+4=10

3+4+4=11

 $1 \times 3 = 3$ 

- 4. Write short notes on (any four):
- 3×4=12

- (a) Biomolecules
- (b) Function of chlorophyll
- (c) Metabolic concept
- (d) Alkaloids
- (e) Phytochrome
- (f) Non-protein amino acids

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