

M.Sc (Part I) By Research
Microbiology Paper III Microbial
Biochemistry PB

AGLI: T-125-Plant 000-310

By Papers

By Research]

(3 Hours)

PB-5566

| Total Marks : 75

Total Marks : 100

26 April 2013

N.B. : (1) All questions are compulsory.

(2) Figures to the right indicate full marks.

1. (a) Explain any two of the following :—
(i) Mechanism of action of allosteric enzymes
(ii) Purification of proteins using iso-electric precipitation
(iii) Protein structure software.
(b) Write a note on any one of the following :—
(i) Determination of active site of an enzyme
(ii) Mitochondrial DNA.

2. With the help of metabolic reactions/diagrams, explain any three of the following :—
(a) Degradation of methionine to succinyl CoA.
(b) Serine isocitrate lyase pathway in methylotrophs.
(c) Biosynthesis of tyrosine from PEP and E4P.
(d) Biosynthesis of phycobiliproteins.

3. Discuss any three of the following :—
(a) Translocation of membrane bound proteins
(b) Metabolism of alkanes by bacteria
(c) Phototrophic prokaryotes
(d) Membrane and transport lipids.

4. (a) Write an essay on any one of the following :—
(i) Electrophoresis
(ii) Two component signalling system in bacteria.
(b) Give significance of any one of the following :—
(i) Porins
(ii) Starvation stress.

5. Write short notes on any three of the following :—
(a) Advantages and disadvantages of immobilization of enzymes
(b) Ribulose monophosphate pathway in methylotrophs
(c) Trp operon
(d) LPPC

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