

M. SC. (ENVIRONMENT SCIENCE AND TECHNOLOGY)
SEM - I (CBCS) (2013 COURSE) / M. SC.
(GEOINFORMATICS) SEM-I (CBCS) (2013 COURSE) /
DIPLOMA IN WILDLIFE CONSERVATION ACTION SEM – I
(CBCS)/ M. SC. (WILDLIFE CONSERVATION ACTION) SEM
– I (CBCS) 2015 COURSE : WINTER - 2017
SUBJECT: ECOSYSTEM STUDIES

Day: **Saturday**
Date: **18/11/2017**

W-2017-0981

Time: **10.00 AM TO 01.00 PM**
Max. Marks: 60

N.B.:

- 1) Answer any **FIVE** questions.
 - 2) Figures to the right indicate **FULL** marks.
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- Q.1** a) Explain functions of mangrove ecosystem and write about adaptations of mangrove plants. **(06)**
- b) Explain indirect values of biodiversity. **(06)**
- Q.2** a) Explain Shelford's law of tolerance with example. **(06)**
- b) Explain structure of forest ecosystem. Give an example of food chain and food webs in marine ecosystem. **(06)**
- Q.3** a) What are the problems related to ecosystem valuation? **(06)**
- b) Explain Ecosystem services with respect to: **(06)**
- i) regulating services
 - ii) supporting services
- Q.4** a) How humans are responsible for change in ecosystem dynamics. **(06)**
- b) Explain taxonomic classification of invertebrates with only key characters of each phyla. **(06)**
- Q.5** a) Explain the role of micro- organisms in gaseous cycle. **(06)**
- b) Explain speciation and role of plate tectonics in the evolutionary process. **(06)**
- Q.6** Write short notes on any **THREE** of the following: **(12)**
- a) Binomial nomenclature
 - b) Threats to wetlands
 - c) Food pyramids
 - d) Grassland ecosystem structure
 - e) Use of indicators in ecosystem evaluation

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