

CLASS: M.Sc. BOTANY

15A / 224

St. JOSEPH'S COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI – 620 002

SEMESTER EXAMINATIONS – APRIL 2015

TIME: 2 Hrs. 20 Mins.

MAXIMUM MARKS: 70

SEM	SET	PAPER CODE	TITLE OF THE PAPER
II	2014	11UBO430208	ECOLOGY AND PHYTOGEOGRAPHY

SECTION – B

Answer all the questions:

5 x 5 = 25

31. a. Illustrate and describe the growth of a population.

OR

b. Differentiate sympatric from allopatric speciation.

32. a. Describe the structure of an ecosystem.

OR

b. Resilience of ecosystem – Explain.

33. a. What is genetic drift? How does it differ from natural selection?

OR

b. Explain the measure of species richness and evenness.

34. a. Describe the types of biodiversity.

OR

b. Explain the concept of centres of origin of crop species.

35. a. Western ghats of India is a hotspot – Justify.

OR

b. Explain various red list categories of IUCN.

SECTION – C

Answer any THREE questions:

3 x 15 = 45

36. Describe the various ranges of relationship that exists in nature.
37. The land ecosystem was derived from water ecosystem – Explain.
38. Global climate change has significant consequences on life on earth – Justify.
39. Elaborate various phytogeographical regions of the world with their characteristics.
40. Discuss the methods of conservation of biodiversity.
