

**2017**

**M.Phil.**

**1st Semester Examination**

**LIFE SCIENCE**

**PAPER—LSC-115**

*Full Marks : 40*

*Time : 2 Hours*

*The figures in the right-hand margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

*Illustrate the answers wherever necessary.*

**Biochemistry, Conservation and Application of RSGIS**

**Group—A**

1. Answer any four questions from the following : 4×2

(a) Differentiate Ecodegradation from pollution.

(b) Why satellite FCC is useful for regional forest mapping ?

*(Turn Over)*

- (c) Mention the criteria for becoming a Megadiversity country.
- (d) What is the full form of LVE and HVE ?
- (e) What do you mean by novel ecosystem ?
- (f) Explain the terms—noosphere and technosphere.

**Group—B**

2. Answer any four questions from the following : 4×4

- (a) Discuss different methods for *In situ* conservation of biodiversity.
- (b) How for the tropical deforestation can play the leading role in species extinction ?
- (c) Discuss the ethics of conservation biology.
- (d) What is the significance of remote sensing techniques in bioresource estimation ?
- (e) Write a note on anthropogenic biome.

**Group—C**

3. Answer any *two* of the following questions : 2×8

(a) Draw the relationships among Eco restoration, Eco rehabilitation and Eco remediation. Explain the impacts of global climate change on biodiversity.

4+4

(b) Define Metapopulation. Explain Levin's Patch Metapopulation Theory mentioning its significance and limitation.

2+4+(1+1)

(c) What is GIS ? Discuss the role of spectral analysis in Remote sensing for the biodiversity documentation.

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