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(November)

ZOOLOGY

(Major)

Course : 505

(Environmental Biology and Wildlife)

$$\frac{Full\ Marks : 48}{Pass\ Marks : 19/14}$$

Time : 2 hours

*The figures in the margin indicate full marks
for the questions*

1. Fill in the blanks :　　　　　　　　$1 \times 5 = 5$

　　(a) The relationship between biotic and abiotic factors is known as _____ .

　　(b) Population density $d = \dfrac{n/a}{t}$ where n = number of individuals, a = _____ , t = time.

　　(c) _____ cycle has no atmospheric phase.

　　(d) The community that ends a succession is termed as _____ .

　　(e) Manas National Park is situated in the district _____ .

(Turn Over)

(2)

2. Distinguish between the following (any *two*) :   4×2=8

   (a) Biome and Ecotone

   (b) Biotic factors and Abiotic factors

   (c) Pyramid of number and Pyramid of biomass

3. Write short notes on any *two* of the following :   5×2=10

   (a) River dolphin

   (b) Man and wildlife conflict

   (c) Biodiversity hot spot

4. Define population with examples. Explain how immigration and emigration affect population density.   2+6=8

   Or

   Write about the Shelford's law of tolerance.   8

5. What is ecological backlash? Justify that agrochemicals are used for crop production but it creates environmental problem.   2+6=8

   Or

   Define ecological succession and write about main types of succession.   2+6=8

(3)

6. Write about the non-renewable resources of North-East India.   9

   Or

   What is biogeochemical cycle? Discuss the cycling of nitrogen in ecosystem.   2+7=9

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