

- Q-4. (a) Discuss the various uses of forests (7)
 (b) What is need for studying environmental issues? (6)
 (c) What is meant by alpha, beta and gamma richness? Discuss giving examples. (2+5)

Section – C

- Q-5. (a) What are limitations of renewable energy resources? (2+4)
 (b) What is solid waste management? Explain its effects and control. (3+5)
 (c) Write explanatory note on
 (a) green house effect (b) Ozone hole depletion (3+3)
 Q-6. (a) Give your view on “Dams a boon or bane to human civilization.” (2+4)
 (b) What is geothermal energy, hydro power energy? Discuss its merits in Indian scenario. (3+5)
 (c) What is role of information technology in environmental studies and human health? (3+3)
 Q-7. (a) Describe about hot-spots of Biodiversity. (2+4)
 (b) What are pioneer species? Name the pioneer plants of xerarch and hydrarch. (3+5)
 (c) Give an account of environmental disasters and their management. (3+3)
 Q-8. (a) What is biodiversity? Describe the ecological significance of biodiversity. (2+4)
 (b) What are the biosphere reserves? List the Indian biosphere reserves and what are their role towards environmental protection. (3+5)
 (c) What are the impact of modern agriculture on environment? Discuss in the light of some case studies. (3+3)

Roll No.

Lingaya's University, Faridabad
B.Tech (Term – II)
Examination – January, 2010
Environmental Science and Ecology
Paper: CE-101

Time: 3 Hours]

[Max. Marks: 100

Before answering the question, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after the examination.

Note: All questions carry equal marks. Attempt five questions. Question 1 is compulsory. Select two questions from Section B & Two from Section C.

Section – A

Q-I Part A

Select the correct answer of the following multiple choice questions.

- (i) Terrace cropping is a practice in
 (a) deserts (b) rivers (c) hills (d) coastal areas
 (ii) Which area accounts for the maximum use of fresh water?
 (a) domestic (b) industries (c) coolers (d) agriculture
 (iii) Forest and wild life are
 (a) renewable resources (b) non-renewable-resources
 (c) inexhaustible (d) none of these
 (iv) The best soil for healthy and vigorous growth of most plant is
 (a) clayey (b) sandy (c) loam (d) clayey loam
 (v) The term ecosystem was given by
 (a) darwin (b) odum (c) tansley (d) lamark
 (vi) Green plants form the
 (a) first trophic level (b) second trophic level
 (c) last trophic level (d) none of these

- (vii) Which of the following is an endemic species of India
 (a) asian elephant (b) lion tailed macaque (c) whales (d) panda
- (viii) The animal that has become recently extinct is
 (a) dodo (b) dinosaur (c) woolly mammoth (d) archaeopteryx
- (ix) Fluoride pollution mainly affects
 (a) kidneys (b) brain (c) heart (d) teeth
- (x) Disease caused by eating fish inhabiting mercury contaminated water is
 (a) bright's disease (b) Hiroshima episode
 (c) minamata disease (d) osteosclerosis
- (xi) The environment summit in 2009 held in
 (a) New Delhi (b) Rio De Janeiro (c) New York (d) Copenhagen
- (xii) The world AIDS day is recalled on
 (a) 1st. July (b) 5th. June (c) 1st. December (d) 2nd. October
- (xiii) Ozone layer is present in
 (a) troposphere (b) stratosphere
 (c) mesosphere (d) thermosphere
- (xiv) Smog is
 (a) a natural phenomenon (b) a combination of smoke and fog
 (c) is colourless (d) all of the above
- (xv) The food chain in which microorganisms break down the dead producers is called
 (a) consumer of the food chain (b) predator of the food chain
 (c) parasitic food chain (d) detritus food chain
- (xvi) Which one of the following is an abiotic component of the ecosystem
 (a) bacteria (b) plants (c) humus (d) fungi

- (xvii) Common energy source in Indian village is
 (a) electricity (b) coal (c) wood & animal dung (d) sun
- (xviii) Fossil fuels and metallic minerals are
 (a) renewable resources (b) inexhaustible resources
 (c) non-renewable resources. (d) none of these
- (xix) How do dams affect deforestation
 (a) open up previously inaccessible forest for public
 (b) submerge forest (c) damages downstream ecosystem
 (d) all of these
- (xx) A food web consists of (½ x 20=10)
 (a) interlocking of food chain (b) a portion of food chain
 (c) producer, consumer and decomposer (d) a set of similar consumers

Part – B

- (a) What are the effects of deforestation? (5)
 (b) Discuss the process of ecological succession. (5)

Section – B

- Q-2. (a) What is the scope of environmental education? (7)
 (b) What are the decomposers? Explain their role in the ecosystem. (6)
 (c) What are ecological pyramids? Explain why some of these pyramids are upright? (2+5)
- Q-3. (a) Discuss the issues & outcome of Copenhagen summit. (7)
 (b) Why nuclear power plants are considered threat to ecological security? (6)
 (c) What are causes of flood and drought? What are their effects on human beings? (2+5)