



UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Sixth Semester – 2019

Paper: Environmental Biology

Course Code: ZOOL-316 Part – I (Compulsory)

Time: 15 Min. Marks: 10

Roll No. in Fig.

Roll No. in Words.

Signature of Supdt.:

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the correct option.

(10x1=10)

- i.** Tropical forests cover about ____% of the earth land area.
a) 6 b) 10 c) 60 d) 20
- ii.** _____ is not a greenhouse gas.
a) CFCs b) Nitrous oxide c) Methane d) Ethane
- iii.** Hot spots are:
a) Areas subjected to frequent fires
b) Area rich in biodiversity
c) Area rich in unique species
d) Area once had extinct species
- iv.** Ozone depleting chemicals include:
a) Halons b) Methyl bromide c) Carbon tetrachloride d) All of above
- v.** _____ tells us about proportion of individuals of different ages in a population.
a) Fecundity schedule b) Life table c) Age distribution graph d) Survivorship curves
- vi.** Intrinsic per capita rate of increase 'r' is equal to maximum per capita rate of increase r_m when
a) Population size is high
b) Population size is low
c) Value of K is high
d) All of above
- vii.** _____ are formed at high temperature in incinerator during reaction with chlorine and hydrocarbons.
a) Dioxins b) PCBs c) MTBE d) Ozone
- viii.** A declining population have age distribution curve with maximum number of:
a) New born b) Youngster c) aged d) all age groups
- ix.** An annual reproducing population with initial population size of 446 individuals and geometric rate of increase is 1.7, what will be the population size after 2 years?
a) 758 b) 1,288 c) 2,244 d) 564
- x.** In tolerance model, Climax community;
a) Can be present at early stage
b) Modify the environment
c) Prevent other community to establish that area
d) None of these



ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q. No. 2: Give short answers to the following questions. (2x10)

- i. How exponential growth equation can be converted into logistic growth equation?
- ii. Define biomass accumulation model.
- iii. What information a survivorship curve can provide?
- iv. What is sustainable growth?
- v. What do you mean by particulate air pollution?
- vi. What is chemical warfare?
- vii. What factors in your life are contributing to water pollution? State any two of them.
- viii. Define Biochemical pesticides with example.
- ix. Per capita rate of increase depends on body size. Comment.
- x. Define sex ratio.

Q. No. 3: Describe the following with detailed answers. (10x3)

- i. Explain MECHANISM OF SUCCESSION.
- ii. Write a note on sources, impacts, and control of LAND POLLUTION.
- iii. Discuss the environmental limits of POPULATION GROWTH.