

(21)

SEAT No. _____

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SARDAR PATEL UNIVERSITY
T.Y.B.Sc. 5th SEMESTER EXAMINATION
2018
Saturday, 3rd NOVEMBER
10.00 AM to 1.00 PM

Population Dynamics & Biostatistics US05CENV06

Total Marks-70

Q.1 Select the answer and write it in answer sheet (10)

1. Guiding principles of Environmental ethics were provided by _____ in 1991.
(a) Frechte (b) Theiler (c) Charles (d) Derrick
2. _____ can create health risks and requires serious attention
(a) Hazardous waste (b) Waste treatment (c) Recycling (d) All of above
3. Stockholm conference was held in _____ year
(a) 1968 (b) 1970 (c) 1972 (d) 1974
4. Health is a state of _____ well-being and not merely the absence of disease
(a) physical (b) mental (c) social (d) all of above
5. _____ ppm of SO₂ contracts the muscles that encircle the bronchioles
(a) 3.5 (b) 4.5 (c) 5.5 (d) 6.5
6. Yellow fever is caused by _____ virus
(a) Vaccinia (b) Mega (c) Arbo (d) Feline
7. _____ bulb is more efficient than CFL bulb
(a) Incandescent (b) LED (c) Both of above (d) None of above
8. _____ pounds CO₂ can be saved per year by proper home colorpaining
(a) 5000 (b) 4000 (c) 3000 (d) 2000
9. _____ is not a part of central tendency
(a) Mean (b) Mode (c) Standard Error (d) Median
10. Sampling error is the difference between _____ & _____ values
(a) population & sample (b) population & area
(c) area & sample (d) area & study

(1)

(P.T.O.)

Q.2 Answer in brief (Any ten)

(20)

1. Write the "rights of nature" according to environmental ethics
2. Mention in brief about health effects of Solid Waste pollution
3. Discuss short term factors which affects population growth
4. Discuss the type of infection, symptom and control of disease Typhoid
5. Explain indirect health effect of severe environment
6. Write a short note on radiation damage
7. What is acid rain ?
8. Discuss the control of domestic sewage water pollution
9. Explain the sustainable ways to improve vehicle fuel efficiency
10. Write a short note on median
11. Calculate mean of given data

21, 54, 68, 41, 30, 35, 62, 24, 36, 38, 24, 48, 64, 65, 31, 62, 44, 27, 35, 61

12. Discuss the steps of sampling

- Q. 3** (a) Write a note on analysing pattern of population growth (05)
(b) Discuss the need of Environmental Ethics (05)

OR

- Q. 3** (a) Which are the guiding principles of environmental ethics? (05)
(b) Discuss logistic growth curve of population (05)

- Q. 4** Write a detail note on AIDS with its causal organism, symptoms and control measures with help of appropriate diagram (10)

OR

- Q. 4** (a) What is stress ? Discuss the types of stress (06)
(b) Explain how water pollution affects public health (04)

- Q. 5** (a) Write a note on environmental degradation and its effects (05)
(b) Discuss the concept of Sustainable development (05)

OR

- Q. 5** (a) Explain any five imperatives for sustainable development (05)
(b) Discuss - How to conserve energy in home & yard sustainably? (05)

- Q. 6** (a) Calculate mean and variance of given data (06)

0-6	6-12	12-18	18-24	24-30	30-36	36-42	42-48	48-54	54-60
14	17	09	23	41	36	11	20	06	11

- (b) Write in brief about stratified sampling (04)

OR

- Q. 6** (a) Discuss in detail about presentation of qualitative data (06)
(b) Write a note on development of formula for Standard Error (04)