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Seat No : _____

No. of Printed Pages : 2

SARDAR PATEL UNIVERSITY
T. Y. B.Sc. 5th SEMESTER EXAMINATION

2019

Friday, 22nd November

10.00 AM to 01.00 PM

US05CENV06 Population Dynamics and Biostatistics

Total Marks : 70

Q.1. Select the correct answer and write in answer book (10)

1. There are mainly _____ major periods of human history
(a) Two (b) Three (c) Four (d) Five
2. Land ethics were given by _____
(a) Milberth (b) Leopold (c) Delors (d) Schrader
3. AIDS is _____ type of disease
(a) vector borne (b) air borne (c) water borne (d) infectious
4. *Aedes aegypti* spreads _____ disease
(a) Dengue (b) Yellow fever (c) Both of above (d) None of above
5. Disease is abnormal state of _____ stability
(a) Physical (b) Mental (c) Social (d) All of above
6. Energy star label refrigerator consumes _____ % less energy
(a) 10 (b) 15 (c) 20 (d) 25
7. Global warming pollution can be reduced with _____
(a) green tags (b) red tags (c) yellow tags (d) blue tags
8. In _____ sampling, samples are divided into strata
(a) Sequential (b) Cluster (c) Stratified (d) Systematic
9. Pie diagrams are also known as _____ diagram
(a) proportional (b) sector (c) multiple (d) pictorial
10. Standard deviation is an improvement over _____ deviation
(a) probability (b) mode (c) median (d) mean

Q.2 Answer in brief (Any 10) (20)

1. Discuss need of environmental ethics
2. Write a note on health effects of solid waste pollution
3. Define: Population, Abundance
4. What is Positive stress?
5. Comment on Minamata disease
6. Discuss Cholera in brief
7. Give a note on ways to reduce electricity usage around home
8. Discuss about actions individual can take for sustainable development
9. Write in brief about evolution of sustainable development
10. Discuss merits and demerits of Mode
11. What is test of significance?
12. Write about multistage sampling

(1)

CPT 03

- Q.3 (a) Which are the guiding principles of environmental ethics? (06)
 (b) What is Logistic growth curve of human population (04)

OR

- Q.3 (a) Discuss the basic directives of environmental ethics (06)
 (b) Write a note on human population age structure (04)

- Q.4 (a) Discuss in detail about AIDS (06)
 (b) Write in brief on effects of increased temperature (04)

OR

- Q.4 (a) Which are three major entries of pollutants in human body? Discuss (06)
 (b) Write a note on Poliomyelitis (04)

- Q.5 (a) State the measures to conserve energy in home and yard (05)
 (b) Write in brief about control of acid rain (05)

OR

- Q.5 (a) Discuss: Imperative for Sustainable Development (05)
 (b) Give a detailed note on control of ozone depletion (05)

- Q.6 Calculate Mean, Median, Mode, Standard Deviation and Variance of given data (10)

Class	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	100-110	110-120
frequency	36	14	18	10	12	21	34	13	18	05	01	06

OR

- Q.6 Discuss in detail the methods for presenting statistical data (10)

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 (2)