

2008

(July)

ANTHROPOLOGY ✓

(Human Ecology and Adaptation)

Course No. : 203

Full Marks : 75

Time : 3 hours

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

Answer any **five** questions

1. Compare and contrast any *three* of the following : 5×3=15
- (a) Undernutrition versus Overnutrition
 - (b) Stress versus Strain
 - (c) Adaptability versus Fitness
 - (d) Nutritional deficiency disorders versus Metabolic disorders
 - (e) Evolution of culture versus Evolution of disease

2. Enumerate the contemporary approaches to the study of (a) human ecology and (b) cultural ecology. $7\frac{1}{2}+7\frac{1}{2}=15$

3. Define and explain the following terms : $3 \times 5 = 15$

(a) Malnutrition

(b) Biogeography

(c) Hypoxia

(d) Environmental Degradation

(e) Allen's Rule

4. How would you define genetic adaptation? How does it differ from behavioural adaptation? Discuss the conditions for the evolutionary success of a specialized and a generalized species. $2+5+8=15$

5. Write an essay on the variation in heat adaptation in humans in respect of within and between populations. 15

6. What are the essential nutritional requirements in humans? Do you think that there exists, individual variation in nutritional requirements in humans? Provide reasons for your answer. $8+4+3=15$

7. What is nutritional anthropology? How would you assess nutritional status of a community by applying anthropometry? 7+8=15
8. Write an essay on the health impacts of water and air pollution in human groups with appropriate examples. 15
9. Provide a list of major limiting factors or 'stresses' that characterize various ecosystems, viz., arctic zones, high altitudes, arid lands, grasslands and humid tropics. 15
10. Write short notes on any *three* of the following : 5×3=15
- (a) Cultural adaptation
 - (b) Ecosystem
 - (c) Physiological adaptation
 - (d) Infectious disease
 - (e) Epidemiology
