



WEST BENGAL STATE UNIVERSITY
B.Sc. Honours 6th Semester Examination, 2023

ANTADSE04T-ANTHROPOLOGY (DSE3/4)

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.
Candidates should answer in their own words and adhere to the word limit as practicable.
All symbols are of usual significance.*

1. Answer any *two* questions from the following: (within 800-1000 words each) 10×2 = 20
 - (a) What is meant by homeostasis? What are the mechanisms involved to regulate homeostatic phenomenon in human being? 3+7
 - (b) What is respiratory function? Briefly discuss the determinants of static and dynamic lung function in human. 2+8
 - (c) Describe the relationship of body measurements with cardiovascular and respiratory endurance. 10
 - (d) What is the relationship between physique, body composition, nutrition and performance? 10

2. Answer any *two* questions from the following: (within 300-400 words each) 5×2 = 10
 - (a) Write a short note on spirometry and its utility.
 - (b) Briefly explain the concept of work capacity.
 - (c) What is meant by metabolic rate? How is it measured in human being?
 - (d) What are the risk factors associated with CVD?

3. Answer any *five* questions from the following: (within 25-30 words each) 1×5 = 5
 - (a) What is lung function test?
 - (b) What is arterial blood pressure?
 - (c) What factors can reduce risk of CVD?
 - (d) What are the factors affecting metabolic rate?
 - (e) What is meant by thermoregulation?
 - (f) State factor influencing physical performance and work capacity.
 - (g) What are the types of cardiovascular diseases?
 - (h) What is Physiological Anthropology?
 - (i) What do you mean by screening?
 - (j) Briefly state the functions of extracellular fluids.

4. Answer the following questions by choosing correct options:

- (a) The term 'homeostasis' was first introduced by
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|----------------------------|-----------------------|
| (i) Walter Bradford Cannon | (ii) Watson and Crick |
| (iii) Johanson Brown | (iv) Isaac Newton |
- (b) Hypertension does not increase the risk of
- | | |
|-----------------------|-------------|
| (i) renal failure | (ii) asthma |
| (iii) cardiac failure | (iv) angina |
- (c) Which of the following is not related to the general term "physical performance"?
- | | |
|--------------------|--------------------|
| (i) Strength | (ii) Endurance |
| (iii) Intelligence | (iv) Co-ordination |
- (d) Extracellular fluid contains
- | | |
|--------------------|--------------------|
| (i) Glucose | (ii) Fatty acid |
| (iii) All of these | (iv) None of these |
- (e) Air pollution gas directly affect
- | | |
|------------------------------|-------------------------|
| (i) Cardiovascular mechanism | (ii) Pulmonary function |
| (iii) Renal function | (iv) Body balance |