

2026

**ANTHROPOLOGY**

**(Theory)**

**Full Marks : 70**

**Pass Marks : 21**

**Time : Three hours**

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

*All the questions are compulsory.*

*For Question Nos. 1 to 8 are multiple choice type questions. Choose the correct answer and rewrite it.*

1. The section Eutheria is divided into – 1  
(A) Six orders (B) Five orders  
(C) Nine orders (D) Three orders
  
2. Which of the following cranium bone is more or less like that of a flying bat? 1  
(A) Parietal (B) Frontal  
(C) Occipital (D) Sphenoid
  
3. The projected part of each tooth beyond the gum is called – 1  
(A) Neck (B) Root  
(C) Crown (D) Trunk

P.T.O.

4. Karyokinesis is the process of – 1  
(A) Cytoplasmic division (B) Nuclear division  
(C) Mitochondrial division (D) Cell membrane division
5. The medial and larger bone of leg is – 1  
(A) Tibia (B) Fibula  
(C) Radius (D) Ulna
6. Genetic definition of a race was given by – 1  
(A) Hooton (B) E. B. Tylor  
(C) Montagu (D) Gordon Childe
7. A racial criterion must not be – 1  
(A) Objective  
(B) Non - adaptive  
(C) Modified to a large extent by environment  
(D) Controlled by a known genetic mechanism
8. Which of the following trait is not a racial criterion? 1  
(A) Skin colour (B) Nose  
(C) Blood group (D) Intelligence Quotient

*For Question Nos. 9 and 10, are Assertion and Reason based questions. Two statements are, one labelled Assertion(A) and the other labelled Reason(R). Select the correct answer from the codes (A), (B), (C) and (D) as given below :*

9. Assertion(A) : Dermatoglyphics fulfil many of the conditions laid down by Boyd for a good racial criterion.

Reason(R) : Dermatoglyphics traits are easily modified by environmental factors. 1

- (A) Assertion is correct statement but Reason is wrong statement.
- (B) Assertion is wrong statement and Reason is correct statement.
- (C) Both Assertion and Reason are correct statements.
- (D) Assertion is correct and the Reason is a suitable explanation for Assertion.

10. Assertion(A) : Thalassemia is referred to as Cooley's anemia.

Reason(R) : Thalassemia was first described by Thomas Cooley and Pearl Lee in 1925. 1

- (A) Assertion is correct statement but Reason is not the correct explanation for Assertion.
- (B) Assertion is correct but Reason is incorrect statement.
- (C) Assertion is correct and Reason is the suitable explanation for the Assertion.
- (D) Both Assertion and Reason are incorrect statements.

***Question Nos. 11 to 17 are very short answer type questions. Give each answer in one or two statements.***

- 11. In which aspect of scapula does glenoid cavity lie? 1
- 12. Which fossil man has the largest cranial capacity? 1
- 13. Is it possible to have a short child if a tall gentleman marries a tall lady? 1
- 14. A researcher studies three different racial groups and compares their Rh - factor. He finds highest frequency of Rh - negative in the first racial group. What is the name of first racial group? 1
- 15. If you want to identify a man as a member of Bushman-Hottentot. What will be his hair form? 1

16. What type of discomfort may be faced by an indigenous Manipuri adult if he visits Shiva Garh in Jammu, which is located at an elevation of approximately 3,700 metres? 1

17. A student's marks score in the half yearly examination for five subjects are 78, 81, 98, 75 and 99 . What is the average score of the student? 1

*For Question Nos. 18 to 27, are short answer type-II questions. Give each answer in about 30 to 40 words.*

18. Explain the meaning of the word Anthropology. 2

19. Compare the nose of new world monkey and that of old world monkey. 2

20. Show the articulation of Tibia and Fibula with a neat diagram. 2

21. Draw and label scapula. 2

22. How can you justify that a person belongs to Mongoloid by seeing the features of eye? 2

23. Compare face of Caucasoid and Negroid. 2

24. What will happen to human survival if he does not possess cultural items? 2

25. What is the advantage of having platyrrhine nose among equatorial Negroes? 2

26. The heights of 20 students were recorded in centimetres as under :

128, 142, 126, 131, 136, 128, 133, 132, 129, 133, 134, 138, 135, 134, 136, 137, 139, 143, 138, 148

Calculate the mean height of the students. 2

27. Find the range and mode of the given data set : 2

10, 12, 12, 13, 12, 14, 15, 14, 14, 12, 15

*For Question Nos. 28 to 33, are very short answer type-I questions. Give each answer in about 50 to 60 words.*

28. (a) Bring out any three points of differentiation between the features of Australopithecus skull and that of present day human being or man. 3

*Or*

- (b) Briefly explain the four major stages of hominid evolution.
29. (a) Find out the characters of Australopithecus africanus that proves to be humanoid. 3

*Or*

- (b) The Australopithecus africanus differs from present day apes. Explain.
30. (a) Are spermatogenesis and oogenesis possible without meiosis cell division? 3

*Or*

- (b) Describe the role of meiosis in the maintenance of constant number of chromosome in sexually reproducing organisms.
31. In certain species of flower, the allele for red (R) shows incomplete dominance with the allele for white colour(W), resulting in pink flowers for heterozygous individuals(R).
- (a) If a homozygous red flower is crossed with a homozygous white flower, what are the genotypes and phenotypes of  $F_1$  generation? 3

*Or*

- (b) What is the phenotypic ratio of  $F_2$  generation if the  $F_1$  generation is self pollinated?

32. (a) Let us assume that the earliest men had light skin colour. As a result of mutation some more colours, say dark or yellow skin appeared. As dark skin has some advantages over other shades of skin in hot moist climatic region, for example, in equatorial africa, that colour will adapt itself to that particular environment or in other words that will be selected by nature.

In the above example of formation of different skin colours, two biological processes are working together. What are the two biological processes and explain how they play an important role in the formation of a new race. 3

*Or*

- (b) Sexual selection is the process of selecting mates on the basis of some preferred qualities, as a result of which in course of time, the sexually preferred type would become the dominant variety of the population. Explain how sexual selection acts as an important mechanism for the formation of race.

33. (a) Explain how primary races are formed. 3

*Or*

- (b) Explain hybridization as an important mechanism for the formation of race.

*For Question Nos. 34 to 36, are essay type questions. Give each answer in about 200 words.*

34. (a) Write an essay on the relationship between Anthropology and Biology. 5

*Or*

- (b) Describe the major branches of Anthropology.

35. (a) Man occupies the top position in the animal kingdom. Support the statement using your own words. 5

*Or*

(b) Analyse the suitability of placing human being in the class of mammals.

36. (a) Describe skin colour as one of the good racial criteria.

5

*Or*

(b) Describe different finger ball patterns and their frequency of distribution in the three major racial groups.