

2025

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. Man is – 1
 - (A) Oviparous
 - (B) Viviparous
 - (C) Metatheria
 - (D) Prototheria

2. Largest hole present in human skull is – 1
 - (A) Mental foramen
 - (B) Frontal foramen
 - (C) Foramen magnum
 - (D) Parietal foramen

P.T.O.

3. The human vertebrae are grouped under – 1
- (A) Five regions
 - (B) Four regions
 - (C) Three regions
 - (D) Six regions
4. The obturator foramen is enclosed by – 1
- (A) The ischium and the ilium
 - (B) Parietal and occipital bone
 - (C) Acetabulum and pubis
 - (D) Ilium and pubis
5. The genotypic ratio of F_2 generation in Mendel's monohybrid cross is – 1
- (A) 1 : 3
 - (B) 1 : 2 : 1
 - (C) 9 : 3 : 3 : 1
 - (D) 3 : 1
6. Restabilization of blends of two or more primary races forms – 1
- (A) Primary race
 - (B) Secondary race
 - (C) Tertiary race
 - (D) Quaternary race

7. The meaning of mesoprosopic face means – 1
- (A) Broad face
 - (B) Medium face
 - (C) Narrow face
 - (D) Very broad face

8. The best representative of Xanthoderms are – 1
- (A) Europeans
 - (B) Asiatic mongoloids
 - (C) The Negroids
 - (D) Polynesians

For Question Nos. 9 and 10 are Assertion and Reason based questions. Two statement are given, 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): Early man was generally dolichocephalic. 1
- Reason (R) : The cranial index of early man falls in the range 70.0 – 75.9.
- (A) Assertion and Reason both are correct statements and Reason is correct explanation for Assertion.
 - (B) Assertion and Reason both are correct statements but Reason is not correct explanation for Assertion.
 - (C) Assertion is correct statement but Reason is wrong statement.
 - (D) Assertion is wrong statement but Reason is correct statement.

10. Assertion (A): Australoid are considered as sub-division of Caucasoid. 1

Reason (R) : Australoids are closely resemble the negroid in respect of many characters.

(A) Assertion is wrong statement but Reason is correct statement.

(B) Assertion is correct statement but Reason is wrong statement.

(C) Assertion and Reason both are correct statements.

(D) Assertion and Reason both are wrong statements.

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

11. Which end of the humerus articulate with glenoid cavity? 1

12. Name the fossil man whose cranial capacity is nearest to that of human. 1

13. What will happen if man is used in genetic experiments? 1

14. The following features are observed in a person :

Eye	Hair	Skin
Epicanthic fold	Straight	Yellowish Tinge

To which racial group, the person must be included? 1

15. You are going to meet a typical Indo-dravidian at the Imoinu market of Imphal bazar. How can you identify him? 1

16. What will happen if a light skin individual migrate to an equatorial zone? 1

17. The temperature on the last six days are 30° , 32° , 35° , 31° , 28° and 29° . What is the mean temperature? 1

Question Nos. 18 to 27 are Short Answer type-II questions. Give each answer in about 30 to 40 words.

18. Physical Anthropology is incomplete without anthropometry. Explain. 2
19. Man is classified as eutheria. Why he cannot be identified as metatheria? 2
20. Draw and label the femur of man. 2
21. Show the articulation of radius and ulna in a neat labelled diagram. 2
22. If you want to classify an individual as negroid, what will be the reasons of your classification? 2
23. How can you differentiate a mongoloid from a group of Caucasoid only by using the features of eye? 2
24. What would happen if sickle cell gene is totally absent in the population of Malaria endemic districts of Meghalaya? 2
25. If a person is planning to visit one of his friends whose house is situated at a height of 3,700 metres. What are the probable biological inconveniences he might face and what are the precautions he must take to overcome the problem? 2
26. Calculate the median from the following data. 2

Weakly wages(Rs.)	58	59	60	61	62	64	65	66
No. of workers	2	3	6	15	10	4	3	1

27. The Cranial indices of ten students of class-XI are observed as follows : 2
80.00, 68.51, 70.00, 78.43, 76.92, 64.15, 70.00, 77.58, 66.66 and 78.26.
Calculate the average cranial index of the students.

Question Nos. 28 to 33 are Short Answer type-I questions. Give each answer in about 50 to 60 words.

28. Compare the skull of progressive and conservative Neanderthals. 3

Or

Bring out the phylogenetic position of australopithecenes. 3

29. Narrate the fate of Neanderthals. 3

Or

Compare Sinanthropus and Pithecanthropus. 3

30. Why is meiosis cell division considered to be a contributor to the maintenance of a particular species? 3

Or

“Tall parents may also have short children”. Why? 3

31. Mendel found only one character in the F_1 generation of his monohybrid experiment. Why? 3

Or

Segregation of characters is found only in F_2 generation of Mendel's experiment. Why did he not find this segregation of characters in F_1 generation. 3

32. How does sexual selection act as an important mechanism for the formation of new race? 3

Or

Explain the role of migration and isolation in the formation of a new race. 3

33. Social selection may be defined as the method of regulation of marriage between artificially divided socially approved groups within a population. This helps in isolating mechanism. The result is in course of time, considerable modification in a population are observed. How does social selection act as an important mechanism for the formation of a new race. 3

Or

Mutation is an important process by which different characters are produced. It may be defined as the sudden change in a particular gene producing a new form of an old character. This change is permanent. As soon as a new mutant gene appear, it multiplies from one generation to another and becomes distinctive characteristics of the particular population, provided other condition are favourable.

Is it possible to form a new race without mutation? Support your answer by giving examples. 3

Questions No. 34 to 36 are Essay type questions. Give each answer in about 200 words.

34. Define physical anthropology and describe its two most important branches. 5

Or

Write an essay on the scope of anthropology. 5

35. List out any ten important common characteristic features shared by all the members of order primate. 5

Or

Find out the position of man among the vertebrates. 5

36. Describe ABO- blood group as one of the racial criteria. 5

Or

Explain how dermatoglyphic traits are suitable for racial criteria. 5