

2019

ANTHROPOLOGY

(Major)

Paper : 5.1

(Physical Anthropology)

Full Marks : 60

Time : 3 hours

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

1. Choose the correct answer : 1×7=7

(a) In postulating the theory of evolution by natural selection, Darwin was greatly influenced by

- (i) mutation theory of Hugo de Vries
- (ii) Lamarck's theory of acquired characters
- (iii) Malthus' idea of population control
- (iv) environmental factors

(b) Proconsul may be regarded as the African variety of

- (i) *Aegyptopithecus*
- (ii) *Ramapithecus*
- (iii) *Parapithecus*
- (iv) *Dryopithecus*

- (c) Adaptive biological changes occurring within the lifetime of an organism in response to environmental stress, refers to
- (i) acclimation
 - (ii) habituation
 - (iii) acclimatization
 - (iv) adaptation
- (d) Process of evolution
- (i) does not refer to changes in the genetic composition of population
 - (ii) is a change in the genetic composition of the population
 - (iii) is a static process
 - (iv) does not refer to genetic mutations
- (e) The Wadjak Man was discovered by
- (i) Dr. Eugene Dubois
 - (ii) Broom and Robinson
 - (iii) Prof. Davidson Black
 - (iv) Robert Leakey

- (f) A primitive anthropoid ape, considered to be very closely related to the gibbon is known as
- (i) *Parapithecus*
 - (ii) *Propliopithecus*
 - (iii) *Micropithecus*
 - (iv) *Oligopithecus*
- (g) Inter-species struggle is a feature of
- (i) use-disuse theory
 - (ii) mutation theory
 - (iii) natural selection theory
 - (iv) modern synthetic theory

2. Give brief answers to the following questions : 2×4=8

- (a) Describe the Y pattern of the *Dryopithecus*.
- (b) Write the names of two fossils each belonging to the progressive and conservative Neanderthals.
- (c) What skeletal remains of the *Paranthropus robustus* were discovered and from where?
- (d) What is Allen's rule?

3. Answer any *three* of the following short answer-type questions : 5×3=15

- (a) Who are the Mesolithic people? Describe any one of them.
- (b) Write a short note on *Homo habilis*.
- (c) How do human adapt biologically to the cold climatic condition?
- (d) Write the laws put forward by Lamarck in his theory of evolution.
- (e) Describe any one fossil belonging to the Eocene epoch.

4. Answer any *three* of the following questions : 10×3=30

- (a) Explain Darwin's theory of Natural Selection.
- (b) Write about the origin and evolution of primates based on fossil remains.
- (c) Elaborate on how humans adapt themselves biologically to the heat in the tropics.
- (d) Discuss the Pithecanthropines as a stage of human evolution.
- (e) Discuss the characteristics of the Australopithecine.
- (f) Describe the skeletal remains of the 'Old Man of Cro-Magnon'.

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