Name : .....

Roll No. : .....

Invigilator's Signature : .....

CS/B.OPTM/SEM-1/BO-103/2010-11

2010-11

ANATOMY (GENERAL)

Time Allotted : 3 Hours *Full Marks* : 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

GROUP – A
(Objective Type Questions)

1. Answer any *ten* of the following : 10 × 1 = 10

A) Choose the correct alternatives for the following :

i) How many cell / cells are produced in mitosis ?

a) Two b) Four

c) One d) Five.

ii) Process of amplification of DNA sequence is called

a) DNA probing

b) DNA sequencing

c) Polymerase chain reaction

d) DNA hybridization.

iii) Reticular tissue is found in

a) lymph nodes b) cornea

c) tongue d) none of these.

B) Fill in the blanks :

iv) One sesamoid bone of the human body is ..... .

v) The vertebral level where spinal cord ends is ..... .

vi) Number of chromosomes in spermatozoa is ..... .

C) Choose the correct alternatives for the following :

vii) Which one is a uniaxial joint ?

a) Saddle joint b) Ball and socket joint

c) Gliding joint d) Hinge joint.

viii) Roof of orbit is formed by

a) ethmoid b) palatine

c) zygomatic d) frontal.

ix) Origin of ovary is from

a) Wolffian duct b) genital ridge

c) genital tubercle d) genital duct.

D) Fill in the blanks :

x) The structure passing through foramen magnum is ..... .

xi) The structure passing through jugular foramen is ..... .

GROUP – B

(Short Answer Type Questions)

Write short notes on any *three* of the following. 3 × 5 = 15

2. Placenta.

3. Cerebellum.

4. Planes of the body.

5. Knee joint.

GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following. 3 × 15 = 45

6. a) What are the different types of cell division ?

b) Describe briefly the process of meiosis with suitable diagrams. 5 + 10

7. a) Briefly explain what are chromosomes with structure, chemical composition and types.

b) Explain chromosome aberration. 10 + 5

8. a) Describe the different types of joints with one example of each.

   b) Describe features and movements of the shoulder joint.

10 + 5

9. a) Describe briefly important parts of the brain. Give suitable illustrations.

   b) Discuss brain stem. 10 + 5