

2016

M.Sc.

4th Semester Examination

BIOLOGICAL ANTHROPOLOGY

PAPER—ANT-402(B)

Full Marks : 50

Time : 2 Hours

The figures in the right-hand margin indicate full marks.

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

Illustrate the answers wherever necessary.

Answer Q. No. 1 and three questions from the rest.

1. Answer any *five* questions from the following : 5×2
- (a) What is adolescent and growth spurt ?
 - (b) What is a cross sectional growth study ?
 - (c) What is FM ?
 - (d) Differentiate between growth and development.
 - (e) What is age of menarche ?
 - (f) What is meant by stunting ?

(Turn Over)

(g) What is aging?

(h) What is MUAC?

2. Describe in details the environmental factors affecting growth.
3. The mean weight (kg), height (cm) and body mass index (kg/m^2) of 7-11 year old children are given below :

Age (years)	Weight (kg)		Height (cm)		BMI (kg/m^2)	
	Boys	Girls	Boys	Girls	Boys	Girls
7	17.6	17.8	109.1	109.9	13.2	13.7
8	19.5	18.6	119.6	117.6	13.3	14.1
9	20.2	21.8	123.4	119.9	13.9	14.9
10	24.8	24.6	128.6	126.4	14.6	15.6
11	25.2	25.2	129.1	132.9	14.8	15.1

(a) Draw a suitable graph based on these data. 2×3

(b) At which ages were the maximum increase in height, weight and BMI observed? (Each sex separately).

2

(c) At which ages in the maximum sex differences in these three variables observed?

2

4. A girl has a height of 124.3 cm. She weights 49.6 kg. The mean (sd) of height and weight of the reference population are 133.2 (1.9) cm and 52.1 (1.2) kg, respectively.

Evaluate her nutrition status based on :

(a) height ;

(b) weight. 5+5

5. Define growth. Discuss velocity curve and acceleration curve of growth. 2+4+4

6. What is meant by secular trend? Discuss secular trend in menarche with special reference to India. 4+6

(Internal Assessment - 10 Marks)
