

2017**M.Sc. 4th Semester Examination****ANTHROPOLOGY****PAPER—ANT-402(B)***Full Marks : 50**Time : 2 Hours**The figures in the 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 juvenile growth spurt ?

(b) What is FMI ?

(Turn Over)

- (c) Differentiate between growth and maturity.
- (d) What is meant by wasting ?
- (e) What is meant by leanness ?
- (f) What is secular trend ?
- (g) What is velocity curve ?
- (h) What is menopause ?
2. What is meant by menarche ? Outline population variation is age at menarche. 2+8
3. A boy has a height of 123.4 cm. He weights 49.1 kg. The mean (sd) of height and weight of the reference population are 132.3 (1 : 7) cm. and 51.2 (1.5) kg, respectively.
- Evaluate his nutrition (growth) status based on :
- (a) weight
- (b) height. 5+5

4. The mean weight (kg), height (cm) and body mass index (kg/m^2) of 6–10 years old children are given below :

Age (years)	Weight (kg)		Height (cm)		BMI (kg/m^2)	
	Boys	Girls	Boys	Girls	Boys	Girls
6	17.1	17.3	109.0	109.1	13.1	13.6
7	19.2	18.4	119.5	117.4	13.4	14.5
8	20.1	21.5	123.3	119.8	14.3	15.7
9	24.6	24.0	128.2	126.0	14.9	15.9
10	24.9	24.5	128.9	132.1	14.0	15.8

- (a) Draw a suitable graph based on these data. 2×3
- (b) At which ages is the maximum sex differences in these three variables observed. 2
- (c) At which ages were the maximum increase in height, weight and BMI observed ? 2

5. What are the basic differences between cross-sectional, longitudinal and mixed longitudinal study of growth? Illustrate your answer with suitable examples.

6. Describe in details about the genetical and hormonal factors affecting human growth.

[Internal Assessment — 10]
