

NEW
Part-III 3-Tier
2019

PHYSIOLOGY

PAPER—VII

(Honours)

(PRACTICAL)

Full Marks : 100

Time : 6 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.

Answer all questions.

- 1. Interpret the observation of the supplied kymographic record of toad's gastrocnemius sciatic preparation. 5**

[Record to be provided by lottery]

2. Demonstrate the effect of supplied drug (acetylcholine) on isolated intestinal movement of rat by Dale's apparatus. 15

[Preparation — 03, Normal tracing — 02, Effect — 03, Recovery— 02, Permanent record — 02, Interpretation—03.]

3. Demonstrate the effect of exercise on breathing rate of a human subject. Measure breathing rate of resting condition, just after exercise and three successive recovery with an interval of one minute. Plot your result graphically. 10

[Resting breathing rate — 02, breathing rate of just after exercise— 02, three recovery breathing rate—03, Graph—03]

4. Measure the following anthropometric parameters and interpret your result.

(a) Head circumference

(b) Mid upper arm circumference (MUAC) (3+2)+(3+2)

5. Tabulate the supplied data and prepare a bar-diagram using Ms Excel. 10

[Table—04, bar diagram—06]

6. Project / Field survey report 20
[Report preparation - 12; Viva on the report - 08]
7. Report of educational excursion. 10
[Report preparation - 06; Viva on the report - 04]
8. Laboratory Note Book. 10
[Experimental Physiology - 03; Human experiments - 04;
Computer application - 03]
9. Viva-Voce. 10
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