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UG/5th Sem/PHYSIO(H)/Pr/19

2019

B.Sc. (Honours)

5th Semester Examination

PHYSIOLOGY

Paper - DSE 2-P

Full Marks : 20

Time : 3 Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Environmental Physiology

Answer *all* the questions.

1. Determine the dissolved oxygen (DO) of the supplied water samples, and interpret your result.

[Method - 2, Calculation - 3, Result - 2,
Interpretation - 2] 7+2

2. Kymographically record the effect of food additive (As) on the intestinal movement of rats in Dale's bath. [Marks : Normal movement - 1, 1st effect - 3, 2nd Normal - 1, Result & Interpretation - 1] 5+1

[Turn Over]

(2)

- | | |
|--------------------------|---|
| 3. Laboratory Note Book. | 2 |
| 4. Viva-voce. | 3 |
-

(3)

Pharmacology & Toxicology

Answer *all* the questions.

1. Kymographically record the two effects of acetylcholine (ACh) on isolated rat intestine in Dale's bath. Interpret your findings.

[1st normal - 1, Effect of acetylcholine - 4, 2nd normal - 1, Interpretation - 2] 6+2

2. Determine the acid value of the given oil sample. State the procedure in brief. Write down its principle.

[Procedure - 2, Calculation - 2, Interpretation - 1, Principle - 2] 5+2

3. Laboratory Note Book. 2
4. Viva-voce. 3

[Turn Over]

(4)

**Sports Physiology, Work Physiology and
Ergonomics**

Answer *all* the questions.

1. Determine the Physical Fitness Index (PFI) of an individual and record the recovery heart rate in a graphical manner (after doing standard exercise)

[Tabulation - 2, Measurement & Calculation - 4,
Graphical presentation - 2] 8

2. Measure the following :

- (i) Height (Standing)
- (ii) Weight
- (iii) Sitting height
- (iv) Eye height (sitting)

and calculate BMI and BSA of your subject.

[All measurement - 3, Calculation of BMI &
BSA - 4,] 7

3. Laboratory Note Book. 2
4. Viva-voce. 3
-

(5)

Ergonomics and Occupational Health

Answer *all* the questions.

1. Measure the blood pressure of a subject before and after exercise.

[Tabulation - 2, BP before exercise - 2, After exercise - 2, Interpretation - 2] 8

2. Measure the working heart rate of an individual by ten beats method. Record your results in a proper tabular form. 5+2=7

3. Laboratory Note Book. 2

4. Viva-voce. 3
