NEW

Part-III 3-Tier

2017

ZOOLOGY

(Honours)

PAPER-VII

(PRACTICAL)

Full Marks: 100

Time: 5 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.

Group-A

 Prepare a smear of the gut content / Seminal vesicular content of the animal specimen provided. Examine your preparation under a microscope and draw a labelled diagram of the endoparasite observed by you. Identify the

- parasite stating any three morphological characteristics and the generic name.
- 2. (a) Identify the histological stides provided (A and B), stating two diagnostic characters for each slide. 5
 - (b) Determine your blood group (ABO and Rh) by the help of suitable antigen-antibody reactions. Describe the principle of your test and record your blood group.

Or

Derscribe the working principle of ELISA / immunofluorescence technique / bloting technique learnt by you. State the practical significance thereof.

5

3. Prepare a smear of the microbial sample provided. Fix and 'Gram stain' the smear. Examine the preparation under a microscope and draw a diagram of the bacterium observed by you, stating the generic name.
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Group—B

(Biochemistry, Animal Physiology & Biophysics)

4. (a) Identify the sample provided by performing suitable qualitative tests. Tabulate your tests (names only) observations and inferences (with reaction wherever necessary).

(b)	Estimate the concentration (mg / ml) of protin present						
	in the 'unknown solution' provided, using Low	⁄rys					
	method. Present your readings, calculation						
	inference.	10					
	n that film with the blood sample provide	led.					

- 5. (a) Prepare a blood film with the blood sample provided. Fix and stain it suitably. Observe your preparation under a microscope and draw a labelled diagram of any leucocyte observed by you.
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 - (b) Demonstrate the presence of ammonia / urea / uric acid in the sample provided, using suitable qualitative test.
- 6. (a) Determine the pH of the water sample provided.

 Record your result and comment on it. 15
 - (b) Point out at least three components of a table centrifuge machine / digital balance / colorimeter and state their functions.

Group-C

(Lab note book & Viva-Voce)

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7.	Viva	Voce.			10
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8. Laboratory Note Book.