

**NEW**

**Part II 3-Tier**

**2018**

**ZOOLOGY**

**(Honours)**

**PAPER—V**

**(PRACTICAL)**

*Full Marks : 100*

*Time : 6 Hours*

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

*Answers all questions.*

1. Draw a labelled diagram of the \_\_\_\_\_ system of the experimental specimen provided. 10+5
2. Dissect and display \_\_\_\_\_ system of the specimen provided. Draw a labelled diagram of your dissection. 10+3+2
3. Make a bar diagram / pie chart / table polygon — from a data base provided and save it. Using own computer. 8+2

*(Turn Over)*

4. (a) Make a stained chromosome preparation from Grasshopper testis.
- (b) Identify a stage with reasons.
- (c) Draw a labelled diagram of the identified stage. 10+2+3
5. Make a stained preparation of the sample provided. Identify it with reasons and draw a light sketch of the said section. 4+4+7
6. Identify the specimen (2 slides) with proper reasons. 2×5
7. Laboratory Note Book. 10
8. Viva-Voce. 10
-

**NEW**

**Part II 3-Tier**

**2018**

**ZOOLOGY**

**(Honours)**

**PAPER—V**

**(PRACTICAL)**

*Full Marks : 100*

*Time : 6 Hours*

***Instructions to the Examiners***

**For Question No. 1(a)**

Set the experiment from invertebrate part (as per syllabus) :

- (i) Drawing - 10 marks
- (ii) Labelling - 5 marks

Reproductive system of Earthworm.

Or

*(Turn Over)*

Male Reproductive system of cockroach.

Efferent bronchial arteries of Rohu.

For Question No. 2

Set the experiment from vertebrate part (as per syllabus) :

Salivary gland of Cockroach.

Or

Brain and Pituitary gland of Rohu.

Dissection - 10

Labelling and Diagram - 5.

Reproductive.

For Question No. 3

Provide computer and raw data to each student for  
Polygon / Pie chart / Bar diagram.

Preparation - 8 + Save the preparation - 2

For Question No. 4

Male Grasshopper to be provided to the students.

Staining and display — 10

Identification of the stage displayed — 2

Diagram with labelling — 3

For Question No. 5

Provide unstain slides with tissue to the students for staining. lung / pancreas / testis / kidney.

Identify the experimental stained specimen with reasons.

Draw a light sketch of the specimen.

Staining — 4

Identification with reasons — 4

Light sketch — 7

For Question No. 6

Set any *two* from the following :

24 hrs embryo / 48 hours embryo / 72 hrs embryo / 96 hr embryo.

(5 marks × 2 slides)

For Question No. 7

Laboratory Note Book.

10

[Note : Signature of the teachers must be noted.]

For Question No. 8

Viva-Voce.

10

[Ask 5 questions to each candidate.]  

---