

**NEW**  
**Part II 3-Tier**  
**2015**  
**ZOOLOGY**  
**(Honours)**  
**PAPER—V**  
**(PRACTICAL)**

Full Marks : 100

Time : 6 Hours

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

Answers all questions.

**Unit—A**

1. (a) Dissect & display \_\_\_\_\_ system of the specimen provided. Draw a labelled diagram of your dissection.  
8+(2+2)
- (b) Dissect & display \_\_\_\_\_ system of the specimen provided. Draw a labelled diagram of your dissection.  
8+(2+2)
2. Make a whole mounted preparation of the specimen provided. 6

3. Create a file/manipulate a file using MS Office and save it after naming. 10

Or

Make a Pie Chart/Bar diagram found on databases provided.

4. Laboratory Note Book Submission. 5
5. Viva-Voce. 5

### Unit—B

6. (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
7. (a) Make a stained preparation of the sample provided and identify it with reasons.  
 (b) Draw a labelled diagram of the sample. (10+2)+3
8. Identify the samples provided with proper reasons. (at least 3 characters).  $2\frac{1}{2} \times 4$
9. Laboratory Note Book Submission. 5
10. Viva-Voce. 5

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***Instructions to the Examiners.***

**For Question No. 1**

Set any *two* of the following (*One* from invertebrate and another from vertebrate) :

- (i) Male Reproductive System of Cockroach.
- (ii) Afferent & Efferent branchial arteries — Lata.
- (iii) IX and Xth Cranial nerves — Rohu.
- (iv) Nervous system — Earthworm.

**For Question No. 2**

Set any *one* of the following :

- (i) Female reproductive System of Cockroach.

Or

Nerve ring of earthworm.

*(Turn Over)*

(ii) Brain and pituitary gland of Rohu.

Or

Mouth parts of Cockroach.

For Question No. 3

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

For Question No. 6

Male Grasshopper to be provided to the students.

Staining & display — 10+2

Diagram with labelling — 3

For Question No. 7

Any one TS of the following to be provided to the students.

(i) Ovary, (ii) kidney, (iii) thyroid.

For Question No. 8

Set the following :

(i) TS of Pancreas / Liver.

(ii) Whole mount of 48 hours / 72 hours / 96 hours chick embryo.

(iii) Gastrulla / blastula stage of frog.

(iv) One histochemical detection from protein / lipid / carbohydrate.

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