

NEW

Part II 3-Tier

2017

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. (a) Draw a labelled diagram of the _____ system of the experimental specimen provided. 6+6
- (b) Dissect and 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. 4+2

(Turn Over)

3. Make a pie chart / bar diagram / table polygon — from a data base provided and save it. 8+2
4. Test the significance of the data provided and comment on your result. 10+5

Or

- (i) Make a stained chromosome preparation from Grasshopper testis.
- (ii) Identify a stage with reasons.
- (iii) 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. 5+5+5
6. Identify the specimen (2 slides) with proper reasons. 2×5
7. Laboratory Note Book. 10
8. Viva-Voce. 10

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Instructions to the Examiners.

For Question No. 1(a)

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

- (i) Drawing - 6 marks
- (ii) Labelling - 6 marks

(Turn Over)

For Question No. 1(b)

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

IX and Xth Cranial nerves of Rohu.

Or

Efferent branchial system of Rohu.

For Question No. 2

Set any *one* of the following :

(i) Brain of Rohu.

Or

(ii) Pituitary gland of Rohu.

Dissection - 4 + Display - 2

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

Biostatistics (Data provided from a standard text book)
[as per syllabus].

Process - 10 + Comment / Result - 5

Or

Male Grasshopper to be provided to the students.

Staining & 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.

Identify the experimental stained specimen with reasons.

Draw a light sketch of the specimen.

Staining — 5

Identification with reasons — 5

Light sketch — 5

For Question No. 6

As per syllabus (from Embryological only.) 10

(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.]
