

NEW
Part-II 3-Tier
2018
ZOOLOGY
(General)
PAPER—III
(PRACTICAL)

Full Marks : 100

Time : 6 Hours

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

*Write questions as in set drawn and dictated by the
External Examiner, in the answerscript provided.*

Answers all questions.

- | | |
|-----------------------------|-----|
| 1. (a) Dissect and display. | 8+2 |
| Drawing. | 3 |
| Labelling. | 2 |
| (b) Dissect and display. | 8+2 |
| Drawing. | 3 |
| Labelling. | 2 |

(Turn Over)

- | | |
|--|-----|
| 2. (a) Dissection and Mounting. | 5 |
| Drawing & Labelling. | 3 |
| (b) Staining & Mounting. | 5 |
| Identification & Drawing. | 2 |
| 3. Identify the specimens (A to E) with reasons. 6×5
(upto Subclass for Non-chordates and upto Order for
Chordates) | |
| 4. Submission of Field Report. | 5+5 |
| 5. Laboratory Note Book. | 5 |
| 6. Viva-voce. | 10 |

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Write questions as in set drawn and dictated by the external examiner, in the answer script provided.

[Instructions to the Examiners]

- 1. The Examination must not be conducted without an External Examiner.**
- 2. Number of examinees for each batch should be limited to 20 (twenty).**

(Turn Over)

3. The Internal Examiners are requested to send the programme of Practical Examination of respective centres to the Controller of Examinations, Vidyasagar University and to the Co-ordinator before commencing of the examination.
4. For Question Nos. 1 and 2, one set is to be chosen for each batch out of the bunch of sets by the External Examiner. This chosen set is to be dictated to the examinees for recording on their answers cripts with proper authentication by the Examiners, mentioning date.
5. For Question No. 3, the Examiners will set six (6) materials from the groups mentioned below as per Practical Syllabus :
- Group—A — Bone (any one)**
- Group—B — Histological slides (any one)**
- Group—C — Non-Chordates (any two)**
- Group—D — Chordate (any two)**
- A key list for Question No. 3 is to be made date-wise for each batch and full signature of both examiners should be recorded alongwith the Roll Numbers of the respective candidates.
6. Full address of both examiners [Residential and College] should be noted in the key book along with their short signatures and phone numbers.

7. Any change of examination schedule is to be immediately communicated to the Controller of Examinations, Vidyasagar University and the Co-ordinator.
8. The Examiners are requested to submit their Remuneration bill, T. A. bill, key book and posted award list properly signed by both the examiners during the submission to evaluated answer scripts to the co-ordinator.
9. Evaluated answer scripts, posted award lists and other materials are to be despatched in sealed packets to the co-ordinator within 10 days from the date of completion of practical examination.

Sets of Questions for Dissection & Mounting

Set-I

1. (A) Nervous system of Earthworm.
(B) Origin & distribution of Xth cranial nerves of Rohu / Lata.
2. (A) Mouth parts of Cockroach.
(B) Setae of Earthworm.

Set-II

1. (A) Digestive system of *Pila*.
(B) Afferent branchial system of Rohu / Lata.
2. (A) Cycloid scales.
(B) Mosquito larva.

Set-III

1. (A) Digestive System of Cockroach.
(B) Brain of Rohu / Lata.
2. (A) Redula of *Pila*.
(B) Ctenoid scales.

Set-IV

1. (A) Afferent branchial system of Rohu / Lata.
(B) Nervous system of Earthworm.
2. (A) Mouth parts of Cockroach.
(B) Mosquito larva.

Set-V

1. (A) Digestive System of Earthworm.
(B) Afferent Branchial System of Rohu / Lata.
2. (A) Osphradium of *Pila*.
(B) Blood film of Rat.

Set-VI

1. (A) Origin and distribution of Xth cranial nerves of Rohu / Lata.
(B) Digestive system of *Pila*.
2. (A) Placoid Scales.
(B) Mouth parts of Mosquito.

Set-VII

1. (A) Origin & distribution of IXth cranial nerves of Rohu / Lata.
(B) Digestive system of Cockroach.
2. (A) Whole mount of aquatic micro-arthropod.
(B) Epithelial cells from buccal smear.

Set-VIII

1. (A) Nervous System of *Pila*.
(B) Afferent branchial system of Rohu or Lata.
2. (A) Mouth parts of Mosquito.
(B) Epithelial cells from buccal smears.

Set-IX

1. (A) Female reproductive system of Cockroach.
(B) Afferent branchial system of Rohu or Lata.

- (A) Whole mount of aquatic micro-arthropod.
(B) Placoid scales.

Set-X

- (A) Brain of Rohu / Lata.
(B) Digestive system of Earthworm.
- (A) Osphradium of *Pila*
(B) Ctenoid scales.

Set-XI

- (A) Afferent branchial system of Rohu / Lata.
(B) Nervous system of *Pila*.
- (A) Setae of Earthworm.
(B) Cycloid scales.

Set-XII

- (A) Origin & distribution of IXth cranial nerves of Rohu / Lata.
(B) Female reproductive system of Cockroach.
- (A) Radula of *Pila*.
(B) Blood film of Rat.