

**NEW**

**Part-III 3-Tier**

**2016**

**ZOOLOGY**

**(Honours)**

**PAPER—VIII**

**(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.*

**Unit—A**

**(Experiments on Environmental Biology,  
Toxicology and Applied Zoology)**

1. Estimate the *Dissolved Oxygen/Free Carbon-di-oxide/Salinity* (any one) of the water sample provided. Write down the principle and ecological significance of the result.

$$10+2\frac{1}{2}+2\frac{1}{2}$$

*(Turn Over)*

2. Perform general test on food adulteration of the sample provided. Comment on the result. 7+3

[Samples for Questions 1 and 2 to be provided as per syllabus.]

### Unit—B

**(Identification : upto sub-class for non-chordates and order for chordates)**

3. Identify non-chordate specimens (A, B and C) with reasons. 5×3
4. Identify chordate specimens (D, E and F) with reasons. 5×3
5. Identify bone samples (G and H) with reasons. 5×2
6. Give Scientific names of the specimens provided (I & J) and comment on their significance. 5×2

[For Questions 3, 4 and 5 : Reasons - 4 marks, Scientific names - 1 mark]

[Specimens for Identification should be provided as per syllabus.]

### Unit—C

7. Field Report. 10
8. Laboratory Note Book. 10
9. Viva Voce. 05

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Answer all questions.

**[Instructions to the Examiners]**

**Standard detailed marks distributions which are not usually mentioned in the question paper**

*[Students may be given 60% of allotted marks for simple correct answers and upto 100% for mentioned full specifications as below with correct answers in each question]*

*[It is better if these additional criteria are declared to the students before they start performing in practical exams.]*

(Turn Over)

**Paper VIII****Experiment on environmental biology :**

- (i) Calculation may be included in the answers; Extra credit should be given in case of detailed calculation and their explanations (not just a calculation using a formula).
- (ii) Graph drawn should be self-explaining in case of  $LC_{50}$  and  $LD_{50}$  (*Not in the question*).

**Experiment on food Adulteration :**

- (i) Extra credit should be given for writing the *chemical mechanism of detecting adulterant*.
- (ii) Students are expected to write the significance in terms of harmful effects of the adulterant. Writing only presence or absence of presence or absence of adulterant will be rewarded with fewer marks. Only observation and inferences.

**Identification (each) :**

- (i) For chordate and non chordate specimen —
  - (a) Scientific name with correct spelling - 1 mark
  - (b) Systematic position with correct spelling - 2 marks
  - (c) Characters; overall - 2 marks
- (ii) For bones —
  - (a) Extra marks if written along with systematic position. Not required.
- (iii) For Applied Zoology specimens —
  - (a) Scientific name with correct spelling - 1 mark
  - (b) Systematic position with correct spellings - 2 marks
  - (c) Importance / Economic importance - 2 marks

**Field report :**

- (i) Minimum marks for submission of a valid field report - 4 marks
- (ii) Extra credits for writing details of species diversity - 2 marks
- (iii) Proper answers to viva on field excursion - 4 marks

**Viva-voce :**

- (i) Minimum marks for appearing - 2 marks
- (ii) Average performance - 3 marks, excellent = 4 - 5 marks

**Laboratory Note Book :**

- (i) Minimum marks for submission - 4 marks
  - (ii) Extra credits for those with signature of teachers in all (or atleast most of the) pages and the evaluators should emphasis on relative date of teacher's sign, to indicate the student's sincerity - 3 marks.
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