

**OLD**  
**Part-III 3-Tier**

**2017**

**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 Ecology  
and Environmental Management)**

1. Estimate the Dissolved Oxygen/Free Carbon-di-oxide/Alkalinity (any one as per instruction) of the water sample provided. Write down the principle and ecological significance of the result obtained.

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

*(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