

2018

CBCS

3rd Semester

ZOOLOGY

PAPER—C7P

(Honours)

(Practical)

Full Marks : 20

Time : 2 Hours

Instruction for Examiners

1. For question No. 1, either of the three alternatives may be set to all the candidates for the same date. The question will be selected by both external and internal examiners and no lottery is required. However, the question after selection may be endorsed by any of the examiners in the first page of answer scripts.
2. (a) If quantitative biochemical test is selected, the following samples may be prepared previously, namely-
 - (i) Reducing monosaccharide (glucose, Fructose)
 - (ii)
 - (iii) Reducing disaccharide (Maltose, / Lactose)

(iv)

Now reducing disaccharide (Sucrose)

(v)

(vi)

Polysaccharide (Starch, Dextrin)

(vii)

(viii)

(ix)

Protein (Albumin / Globulin, Gelatine, peptone)

- (b) At least 4 different types of samples should be prepared (per day or batchwise) and may be marked as A, B, C, D etc. There will be a lottery among the students for having unknown samples.
- (c) Each student should be provided with at least 10 ml of any of the above mentioned samples which must be freshly prepared. The sample number may be endorsed.
- (d) Students have to perform the required test and copies must be signed by either of the examiner after completion of the experiment mentioning identified samples.
- (e) Students may write the experiment name wise as follows :

For Protein : Biuret test Performed / Millon's Test Performed / Xanthoproteic Test performed / Esbach's Test performed / Heat Coagulation test performed.

For Carbohydrate : Molisch's Test Performed / Iodine test performed / Benedict's Test performed / Barford's Test performed / Seliwanoff's Test performed / Hydrolysis Test performed.

No explanation is required. After complete experiment conclusion must be there for proper identification.

(f) Marks distribution :

1 - for name of the test

3 - (2 for observation, 1 for inference)

1 - for final conclusion (i.e. identification of sample)

(g) If a student fails to identify the sample only 1 marks may be given for name of test if written properly. If some observations and inferences are correct, he/she may be credited upto 50% depending on his/her writing (i.e. maximum $1\frac{1}{2}$ out of 3) but no marks will be given for conclusion.

3. For Lowry's method following points must be followed -

(a) The standard curve should be provided by the centre, which must be plotted on graph paper (preferably mm) mentioning OD values and concentration in two axes.

- (b) The standard curve should be drawn on the basis of 5 correct observations,
 - (c) The concentration should be in either mg/ml or $\mu\text{g/ml}$ which must be mentioned clearly in the curve.
 - (d) Students should be provided with 1 ml of unknown sample.
 - (e) The correct value of unknown sample with proper unit of correction may be provided in 'key'.
 - (f) Value variation upto 0.2 mg/ml or $\mu\text{g/ml}$ is permitted for giving full marks. However, no credit is given if variation is more than 2mg/ml or $\mu\text{g/ml}$.
4. Student failing to submit LNB should not be credited any marks for Q. No. 3. He/She is eligible to get only $\frac{1}{2}$ mark if no signature is observed in his/her copy.
 5. Signature by teachers within 1 month, good diagram / hand writing / Scientific drawing and 'Content' must be credited for LNB.
 6. For Viva-Voce no student will be credited zero, Examiners require to ask questions from practical syllabi (areas covering the whole syllabi).

In general maximum 6 questions may be asked, however, it is solely depended on the discretion of examiner, according to situation.