

B.Sc Semester I (CBCS) Honours Practical Examination, 2020

Subject: Zoology

Paper: ZOOA-CC-1-2-P; MOLECULAR BIOLOGY LAB

Full Marks = 30

LINK FOR GOOGLE FORM SUBMISSION

<https://forms.gle/xauhwrp28xDqpRoA6>

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

1. Draw and label the different parts of Polytene chromosome and write down the structural and functional peculiarities (characters) of the said chromosome.

Drawing – 5 marks

Labeling – 2 marks

Characters – 3 marks

Total = 10

2. State the procedural steps of DNA isolation from goat liver. 6 marks
Comment on the actions of the following four chemical reagents; 1 x 4 = 4 marks

A. Tris saturated Phenol

B. Isoamyl Alcohol

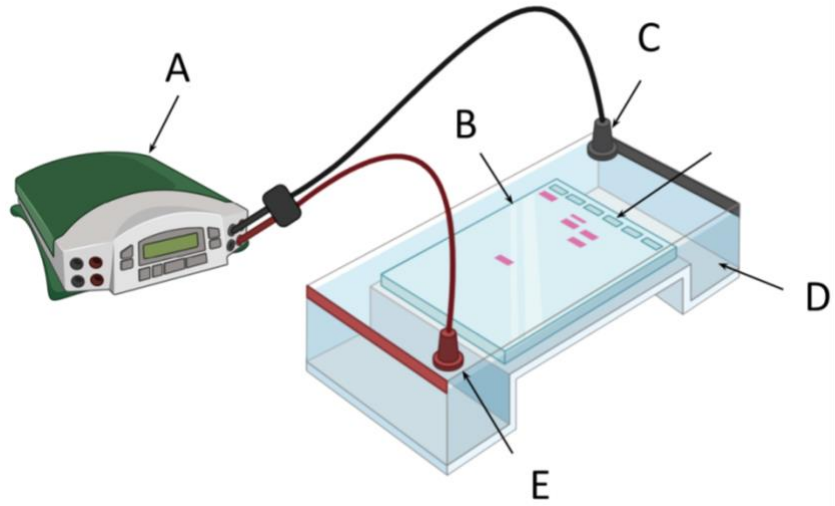
C. Sodium Acetate

D. Tris-EDTA

Total = 10

3. Identify the 5 different parts of the following two apparatus. Comment on their use in the field of molecular biology. (5 x 2 = 10)

(i) Gel Apparatus



(ii) Micropipette

