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UG/5th Sem/ZOO(H)/Pr/19

2019

B.Sc. (Honours)

5th Semester Examination

ZOOLOGY

Paper - DSE2-P

Full Marks : 20

Time : 2 Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Animal Biotechnology

1. (a) Write down the principle and procedure of genomic DNA isolation from *E. coli*. 5+5
- (b) In *E. coli* four Hfr strain donate the following genetic markers shown in order donate

Strain 1 : M Z X W C

Strain 2 : L A N C W

Strain 3 : A L B R U

Strain 4 : Z M U R B

[Turn Over]

Microbiology

1. Prepare a stained slide of the bacterial culture provided using Gram staining method. Write the principle of the methodology used. Identify and draw a labelled diagram of a bacterium from the prepared slide.

Procedure : 5

Observation : 3

Principle : 4

Identification : 1

Drawing & labelling : 2 (1+1)

2. Viva-voce. 3

3. Laboratory Note Book. 2

(2)

What is the order of these markers on the circular chromosome of the original F^+ ?

- | | |
|--------------------------|---|
| 2. Laboratory Note Book. | 2 |
| 3. Viva-voce. | 3 |
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