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RNLKWC/M.Sc./IIS/P.G./PHY-306/22

2022

Human Physiology

[P.G.]

(M.Sc. Third Semester Practical End Examinations-2022)

PAPER-PHY 306

Full Marks: 50

Time: 4 Hrs

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as far as possible

Illustrate the answers wherever necessary

Unit 31

[Marks – 25]

MICROBIOLOGICAL TECHNIQUES

1. Examine the In_dole production of the supplied bacteria. Tabulate your result and interpret it . Write down the principle and the procedure of the experiment.
[Result=3; Interpretation=1 Principle=1, procedure=3]
2. Determine the urease activity of the given bacteria. Interpret your results write the principle and the procedure of the experiment.
[Principle:1 Procedure:2 Urease activity determination:3 Interpretation:1]
3. Submit the duly signed Laboratory note books. 5
4. Viva voce 5

Unit 32

[Marks – 25]

EXPERIMENTAL IMMUNOLOGY

1. Prepare a 1x agarose gel and load previously digested DNA fragments into it. Calculate the size of DNA fragments of assigned lane. Interpret your result.

[Agarose gel preparation:2, Loading DNA fragment:2. DNA fragment size calculation:2 Interpretation:2]

2. Separate WBC of supplied blood sample by Histopaque density gradient centrifugation. Isolate and stain polymorphonuclear cells. Draw a suitable diagram of microscopic field of your result.

[WBC separation:2, Isolation of polymorphic nuclear cells:2, staining:2 Drawing:1]

3. Viva voce

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4. Laboratory note book

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