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RAN-2103000204020116

B.Sc. (Non-NEP) (Sem. IV) Examination April - 2025

Bioscience (Microbiology)

Introductory Medical Microbiology - Old (Paper : BS-402)

Time: 2 Hours]

[Total Marks: 50

સૂચના : / Instructions

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નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.

Fill up strictly the details of signs on your answer book

Name of the Examination:

B.Sc. (Non-NEP) (Sem. IV)

Name of the Subject :

**Bioscience (Microbiology) Introductory
Medical Microbiology - Old (Paper : BS-402)**

Subject Code No.: **2103000204020116**

Seat No.:

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Student's Signature

- (2) Draw neat and labeled diagrams wherever necessary.
- (3) Figures to the right indicate full marks of the question.

Q.1 Multiple choice question. (MCQ)

8

1. Which of the following structure is not covered by epithelial tissue?
 - a. Blood vessels
 - b. Digestive gland
 - c. Skin
 - d. Cartilage
2. The darker bands in muscle fiber is called _____
 - a. H - bands
 - b. A - bands
 - c. Z - bands
 - d. I - bands
3. Which of the following is correct?
 - a. Serum contains blood and fibrinogen
 - b. Plasma is blood without lymphocytes
 - c. Blood comprises plasma, RBC, WBC and platelets
 - d. Lymph is plasma with RBC and WBC
4. Multi-lobed nucleus and granular cytoplasm are characteristics of _____
 - a. Neutrophils
 - b. Monocytes
 - c. Lymphocytes
 - d. Eosinophils

RAN-2103000204020116]

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[P.T.O.]

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5. The vitamin essential for blood clotting is _____
 - a. vitamin A
 - b. vitamin B
 - c. vitamin C
 - d. vitamin K
6. What is the normal range of blood pressure?
 - a. 70/40 - 90/60
 - b. 90/60 - 120/80
 - c. 120/80 - 140/90
 - d. 140/90 - 190/100
7. Which of the following is a physiological variation of body temperature?
 - a. Exercise
 - b. Sex
 - c. Season
 - d. All
8. An excessive loss of water from the body is called _____
 - a. Hydration
 - b. Dehydration
 - c. Over hydration
 - d. None

Q.2 [A] Answer as directed **4**

1. Explain - Poikilothermic animals.
2. Describe in brief functions of thrombocytes.
3. State the normal Hb concentration
4. Enlist the various types of muscles tissues.

Q.2 [B] Write short notes on: (Any two) **10**

1. Systolic Vs Diastolic blood pressure.
2. Cartilage.
3. Regulation of electrolytes.

Q.3 Write an essay on - Epithelial tissue. **14**

OR

Q.3 Answer the following questions. **14**

1. Write a note on- Connective tissue proper.
2. Describe in detail heat gain mechanism.

Q.4 Answer any two of the following questions. **14**

1. Describe in brief transport of O₂ & CO₂.
2. Write a note on Leucocytes.
3. Explain in brief mechanism of coagulation process.
