


RAN-2503000505028001
T.Y.B.Sc. (NEP) (Sem.- V) Examination March - 2026
Bioscience (Microbiology)
Fundamentals of Immunology (Paper - BM-MJ-502)
Time: 1 Hours]
[Total Marks: 25

સૂચના : / Instructions (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fill up strictly the above details on your answer book (2) Figures to the right indicate full marks of the question. (3) Draw neat&clean diagram wherever necessary.	Seat No.: Student's Signature
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Q.1. Multiple choice questions (MCQ) Any Five.
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1. Haptens are _____
 - a. Immunogenic
 - b. Non-immunogenic
 - c. Antigenic
 - d. None
2. Antibodies in our body are produced by _____
 - a. B-lymphocytes
 - b. T-lymphocytes
 - c. Monocyte
 - d. RBC's
3. Interferon is composed of _____
 - a. Lipids
 - b. Lipoprotein
 - c. Glycoprotein
 - d. Nucleic acid
4. Which of the following is an allergen?
 - a. Pollen grain
 - b. Fungal spores
 - c. Animal dander
 - d. None
5. Which of the following is gel precipitation reaction?
 - a. RA test
 - b. RPR test
 - c. Ring test
 - d. Radial Immunodiffusion
6. An example of advanced immunological test _____
 - a. RIA
 - b. IFT
 - c. ELISA
 - d. All

Q.2. Write an essay on – Nonspecific defence.
10
OR
Q.2. Answer the following.

1. Describe in brief types of antigen.
2. Write a note on – Ig G

Q.3. Write an essay on – Hybridoma technique.
10
OR
Q.3. Answer the following questions.

3. Describe in brief the Gel diffusion.
4. Write a note on- Type IV allergic reaction.