(j) What is conjugation?



UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 5th Semester Examination, 2021

DSE-P2-PHYSIOLOGY

Time Allotted: 2 Hours Full Marks: 40

The figures in the margin indicate full marks.

GROUP-A

1. Answer any *five* questions from the following:

(a) Define hapten.

(b) What is HLA complex?

(c) What is recombinant vaccine?

(d) Which part of the bacteria actually gets stained?

(e) What is autoimmune disease?

(f) What is phagocytosis?

(g) Name the vaccine that prevent tuberculosis.

(h) Which immunoglobulin can pass through placenta?

(i) What is epitope?

GROUP-B

	Answer any three questions from the following	$5 \times 3 = 15$
2.	Write a short note on passive immunity.	5
3.	Briefly describe morphological classification of bacteria.	5
4.	(a) What do you understand by natural killer cells?	2
	(b) What do you mean by attenuated vaccine?	2
	(c) What is agretope?	1
5.	Give an account at pathogenic and nonpathogenic bacteria.	5
6.	How does gram positive bacteria differ from gram negative bacteria?	5

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GROUP-C

		Answer any two questions from the following	$10 \times 2 = 20$
7.	(a)	Discuss any four physical factors required for bacterial growth.	4
	(b)	Describe the LPS layer of gram negative bacterial structure.	3
	(c)	What do you mean by pasteurization?	2
	(d)	Why bacterial spores are heat resistant?	1
8.	(a)	What are 1° and 2° responses?	2
	(b)	What are adjuvant cells?	2
	(c)	What is complement system? Discuss its role in the body defence system.	1+5
9.		Classify sterilization process. Describe the principle, mechanism and uses of autoclave.	2+8
10	.(a)	Define immunogen. State any four requirements of a molecule for being an immunogen.	1+4
	(b)	State the importance of variable region of an antibody molecule.	1
	(c)	Distinguish between affinity and avidity.	2
	(d)	Define toxoid.	2

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