

B.Sc. Sem-5 Examination

CC 304

Biochemistry (O/N)

August 2021

Time : 2-00 Hours]

[Max. Marks : 50

Instructions: All questions carry equal marks. Q. 9 is compulsory.

Section I: Attempt any three:		
Q1 a)	Explain endospore germination in bacteria	(06)
b)	What are the different types of Flagellar arrangement? Give examples. Discuss Chemotaxis.	(08)
Q2 a)	List important differences between Gram positive and Gram negative bacterial cell wall	(08)
b)	Write a note on Metachromatic granules	(06)
Q3 a)	Define and explain with examples: 1) Mordant 2) Acidic and Basic dyes. 3) Fixation 4) Chromophore group 5) Auxochrome group	(14)
Q4 a)	Write a note on Viruses.	(07)
b)	Explain principle, procedure and result of Capsule staining.	(07)
Q5 a)	Discuss transport of fats in our body in detail	(14)
Q6 a)	Write a brief note on Dietary fibers	(07)
b)	Discuss Nitrogen balance and factors affecting it.	(07)
Q7 a)	Discuss in detail: 1) BMR 2) SDA 3) RQ	(14)
Q8 a)	Milk is a complete food .Comment.	(07)
b)	Discuss Nutritional value of Legumes.	(07)
Section –II: Attempt any 8: (All questions are of 1 mark each)		(08)
Q.9 1	What is the function of Mesosomes?	
2	Give one example of spiral shaped bacteria?	
3	Give two important features of Mycoplasma	
4	Define Leucompounds and give one example.	
5	Define an intensifier?	
6	What is a smear?	
7	Name the intensifier used in spore staining.	
8	List any two important economic significance of bacterial capsule	
9	What causes Dental Caries?	
10	What are Complete Proteins?	

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11	State a disadvantage of Trans Fats.	
12	Name and define unit of energy	
13	What are Balanced diets?	
14	Name a method to evaluate protein quality	
15	Name a method to find out energy value of foods	
16	How many Kcals does 100 g of Cereals give?	