STUDENT'S ANSWER-SCRIPT SUBMISSION LINK



MCBGCOR04T 21/08/2021 11.00am to 1.00pm

https://forms.gle/QBN6rne1oMecVYK38

WEST BENGAL STATE UNIVERSITY

B.Sc. Honours/Programme 4th Semester Examination, 2021

MCBHGEC04T/MCBGCOR04T- MICROBIOLOGY (GE4/DSC4)

Time Allotted: 2 Hours Full Marks: 40

The figures in the margin indicate full marks.

Candidates should answer in their own words and adhere to the word limit as practicable..

Question No. 1 is compulsory and answer any four from the rest				
1.		Answer any <i>four</i> questions from the following:	$2\times4=8$	
	(a)	What is the function of a hapten?		
	(b)	What do you mean by clonal selection?		
	(c)	What are the differences between polyclonal and monoclonal antibodies?		
	(d)	Give two examples of antigen presenting cells.		
	(e)	Name the causal agents of leprosy and cholera.		
	(f)	What is toxoid? Give an example of toxoid.		
	(g)	What are the causative agents of whooping cough and amoebic dysentery?		
	(h)	What is nosocomial infection?		
•			2	
2.		Explain the term ADCC.	2	
		Describe the differences between allotypic and idiotypic determinants.	2	
		Define epitope and paratope.	2	
	(d)	What is the difference between antigen and immunogen?	2	
3.	(a)	What are the differences between humoral and cell mediated immunity?	2	
	(b)	Name the Ig molecules that lack hinge regions. What are incomplete antibodies?	2	
	(c)	What are plasma cells?	2	
	(d)	Name the factors involved in host-pathogen interactions.	2	
4.	(a)	What are the differences between agglutination and precipitation? What is passive agglutination?	2+1	
	(b)	Describe the term prozone effect.	2	
	(c)	Explain the principle of ELISA.	3	
5.	(a)	What are the differences between primary and secondary immune response?	4	
	` ′	What is an adjuvant? Give an example of adjuvant.	1+1	
		What are different types of mycoses?	2	
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6.	(a)	what are the differences between exotoxin and endotoxin?	4
	(b)	Explain the mechanism of cholera toxin with a suitable diagram.	4
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7.	(a)	What do you mean by virulence and toxigenicity?	2
	(b)	Write down the Koch's postulates.	4
	(c)	What do you mean by an opportunistic pathogen?	2
8	(a)	To which family does pox virus belong?	1
0.		Name the causative agent of meningitis.	1
	` '		
	` ′	State the pathogenesis caused by rubella virus.	2
	(d)	State the mechanism of action of sulfonamide and acyclovir.	2
	(e)	What is pathogenicity island?	2
9.	(a)	Differentiate between the various isotypes of the immunoglobulins.	4
	` ′	What are the symptoms of malaria?	2
	` '	• •	
	(C)	Name two normal microflora of: (i) throat (ii) urogenital tract.	1+1

N.B.: Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.

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