## 

## MICROBIOLOGY

[Honours]

PAPER -IV

Full Marks: 90

Time: 4 hours

The figures in the right hand margin indicate marks Candidates are required to give their answers in their own words as far as practicable

Illustrate the answers wherever necessary

## [OLD SYLLABUS]

GROUP - A

Answer any two questions, taking at least one question from each Sub-groups: 15 x 2

Sub-group - A(a)

(a) Differential between natural acquired immunity. 2

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ts. 3
2
5
its 5 + 3
oial 3
of 2+2
nin. 2
? 3
3

4.	. (a) Discuss the general guideline of food preservation.	4
	(b) How does a child get natural microorganism within his/her body during birth? How they get immunated naturally?	
	(c) How egg is naturally preserved?	2
	(d) Write the name organism and the production of sauerkaret through a flow chart.	5
	GROUP - B	
	Answer any five questions, taking at least two questions from each Sub-groups: 8 ×	5
	Sub-group — B(a)	
5.	(a) How does antibody react with antigen? Show with sketches.	4
-	<ul><li>(b) Describe the structure and function of class-I MHC molecules.</li></ul>	4
6.	(a) Why and how freezing is effective to preserve food? 2+	2

335	(b)	What is endotoxin? Name the organis responsible for botulism.	ms 2 + 2
7.	(a)	Discuss the current strategies followed the treatment of tuberculosis.	for 4
	(b)	Briefly describe mechanism of action streptomycin.	of 4
8.	Ho	w is drug resistance developed in microbe	es? 8
		Sub-group — B(b)	
9.		nat is inflammation? Diagrammatic plain all the steps of inflammation.	ally 2 + 6
10	. (a)	Write mode of action of gresiofulvin. Wits source organism.	Vrite 3 + 1
	(b)	Describe the dignosis process for mal detection.	aria 4
11	dis	ame the causal organism agent, spread sease symptoms and preventive measureDS. 2+2	ling, es of + 2 + 2
UG	/ШΜΙ	CB/H/IV/17(O)d) (4	Continued)

2

12. (a) Define fermentation.

(b) Write down the industrial of amylase.	production 6
of amylase.	· •
GROUP – C	8- E
Answer any five questions, taking at questions from each Sub-grou	
Sub-group — C(a)	
13. Write a short note on pathogenesis by typhi.	y Salmonella 4
9F	-
14. Briefly describe the process for cure	d production. 4
15. Discuss the epidemiology of leprosy	and hepatitis. 2+2
16. Why on sweat microorganism grow i	faster? Name
two microbial pathogens which	
infection.	2+2
Sub-group $-C(b)$	
17. Briefly describe the process ca	nning food
preparation.	4
UG/II/MICB/H/IV/17(Old)	(Tuṛn Over)
	121

18.	Write a short note on quality assurance.	4
19.	Discuss the different methods of enzyme immobilization.	4
20.	(a) What is lyopholization?	2
	(b) Under what conditions does Aspergillus niger accumulate citric acid in large quantities.	
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