(10)

B.Sc. BIOTECHNOLOGY SPECIAL EXAMINATION

Second Semester MICROBIOLOGY-II (BBT - 202)

Duration: 3Hrs. Full Marks: 70

Part-A (Objective) =20 Part-B (Descriptive) =50

(PART-B: Descriptive)	
Duration: 2 hrs. 40 mins.	
Answer any four from Question no. 2 to 8 Question no. 1 is compulsory.	
1. Explain with a neat diagram on the process of Hypersensitivity Type	1. (10)
2. Describe the process of specialized transduction with diagram.	(10)
3. Explain Pentose phosphate pathway.	(10)
4. Describe any one method of purification of virus.	(10)
5. Describe the reproduction in rickettsiae with a neat diagram.	(10)
6. Define mutation. Explain spontaneous mutation with a neat diagram.	(10)
7. Define plasmid. Describe F'mode of reproduction in bacteria.	(10)

8. Describe the production of citric acid.

a) Rickettsia

c) Chlamydia

Marks - 20

1×10=10

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Duration: 20 minutes	
	(PART A - Objective Type)
I. Choose the correct answer:	
1. The U tube experiment was	s conducted by
a) Lederberg & Tatum	b) Barbara Mcclintok
c) Bernard Davis	d) Fred Griffith
2. The capsid of adenovirus is	
a) Helical	b) Complex
c) Icosahedral	d) Enveloped
3. Production of SCP associate	
a) Methanol	b) Cellulose waste
c) Ethanol	d) Whey
4. The primary microorganism	n contributing to the production of sauerkraut is
a) Enterococcus faecalis	b) Lactobacillus brevis
c) Leuconostocmesenteroid	es d) Aspergillusniger
5. Systemic lupus erythemator	us is associated with
a) Hypersensitivity type 1	b) Hypersensitivity type 11
c) Hypersensitivity type 111	d) Hypersensitivity type 1V
6. Reticulate body is found in	

b) Mycoplasma

d) Pasteurellaceae

7. The primary microorganism of	contributing to the production of sauerkraut is
a) Enterococcus faecalis	b) Lactobacillus brevis
c) Leuconostocmesenteroides	d) Aspergillusniger
8. The enzyme 2- keto 3 deoxy (6 Phosphogluconate is associated in which pathway
a) Pentose Phosphate Pathway	b) EntnerDoudorhoff pathway
c) Kreb cycle	d) Glyoxylate pathway
9. Mad cow disease is associated	
a) Bacterial infection	b) Abnormal conformation of protein folding
c) Immunological disorder	d) Viral infection
10 The	4-1-4-4-1-4-1-4-4-4
10. Thermophilic bacteria associa	
a) E.coli	b) Pseudomonas
c) Thiobacillusferroxidans	d) Aspergilusniger
Fill in the blanks:	1×10=10
, I III III CHE DIMINIS.	
1. A plasmid that can exist either	r independently of the host cell chromosome or be integrated
into it is known as	
2. ABO blood transfusion is asso	ociated with hypersensitivity typesystem
3. The name of the transposable	elements in bacteria is known as
4 Production of acetone & buta	nol is an process.
4. Troduction of acctone & buttan	process.
5. Accumulation of Cro gene giv	ve rise tocycle.
6 Lempeh production is associate	ted with the fermented

7. Linkage of pentose phosphate path	way to glycolysis is via enzyme	
8. The name of the transposable elem	ents in bacteria is known as	
9. The bacterial polysaccharide assoc	iated with the remediation of oil spillage is	
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10.The abnormality in	gene is associated with prions.	
