

University of Mumbai
Examination 2020 under cluster 3 (FCRIT)

Program: BE Biotechnology

Curriculum Scheme: Revised 2016

Examination: Second Year Semester III

Course Code: BTC 302 and Course Name: Microbiology

Time: 1 hour

Max. Marks: 50

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Note to the students: - All the Questions are compulsory and carry equal marks.

Q1.	Which scientists' first disproved spontaneous generation by showing that maggots only appear on decaying meat that has been exposed to flies?
Option A:	Francesco Redi
Option B:	Joseph Lister
Option C:	Louis Pasteur
Option D:	Robert Hooke
Q2.	Which of the following bacteria was not discovered by Robert Koch?
Option A:	<i>Bacillus anthracis</i>
Option B:	<i>Mycobacterium tuberculosis</i>
Option C:	<i>Salmonella typhi</i>
Option D:	<i>Vibrio cholerae</i>
Q3.	Compound Microscope was discovered by
Option A:	A.V. Lewenhoek
Option B:	Pasteur
Option C:	Janssen and Hans
Option D:	None of these
Q4.	The correct order of taxonomic groups from higher to lower rank is?
Option A:	Kingdom—Order—Class—Family
Option B:	Order—Class—Division—Family—Genus—Species
Option C:	Kingdom—Order—Division—Family—Class—Genus—Species
Option D:	Kingdom—Division—Class—Order—Family—Genus—Species
Q5.	Which of the following contains structures composed of N-acetylmuramic acid and N- acetylglucosamine?
Option A:	Mycoplasmas
Option B:	Amoeba
Option C:	E.coli
Option D:	Spheroplast

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Q6.	Five kingdom system was proposed by ?
Option A:	RH Whittaker
Option B:	RH winter
Option C:	RH whitter
Option D:	RH Walker
Q7.	Which of the following choices lists the steps of pathogenesis in the correct order?
Option A:	invasion, infection, adhesion, exposure
Option B:	adhesion, exposure, infection, invasion
Option C:	exposure, adhesion, invasion, infection
Option D:	disease, infection, exposure, invasion
Q8.	Degree of pathogenicity is referred to as _____
Option A:	infection
Option B:	virulence
Option C:	avirulent
Option D:	attenuated
Q9.	Name those bacteria which obtain energy from chemical compounds?
Option A:	Chemotrophs
Option B:	Phototrophs
Option C:	Organotrophs
Option D:	Heterotrophs
Q10.	Blood agar medium is
Option A:	Enrichment medium
Option B:	Enriched medium
Option C:	Selective medium
Option D:	Differential medium
Q11.	Rapid bacterial growth phase is known as
Option A:	Log
Option B:	Lag
Option C:	Lack
Option D:	None of these
Q12.	The generation time is
Option A:	The time required for the cell to divide
Option B:	The total division of the cell during its life time
Option C:	The total no.of cells formed
Option D:	None of these
Q13.	In the sigmoid curve (or) growth curve of bacteria how many stages are there

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Option A:	3
Option B:	4
Option C:	2
Option D:	5
Q14.	The organisms which can grow both in presence and absence of oxygen
Option A:	Aerobes
Option B:	Anaerobes
Option C:	Faculative anaerobes
Option D:	Strict aerobes
Q15.	Which of the following is used to grow bacterial culture continuously?
Option A:	Chemostat
Option B:	Hemostat
Option C:	Coulter-Counter
Option D:	Turbidostat
Q16.	During the decline phase?
Option A:	Microorganisms try to settle in the new environment
Option B:	Shows exponential growth
Option C:	Death rate is equal to the rate of generation of new cell
Option D:	Number of live cells decreases
Q17.	Temperature required for pasteurization is
Option A:	Above 150oC
Option B:	Below 100oC
Option C:	110oC
Option D:	None of these
Q18.	Which of the following method of sterilization has no effect on spores?
Option A:	Drying
Option B:	Hot air oven
Option C:	Autoclave
Option D:	None of these
Q19.	Glassware are sterilized by
Option A:	Autoclaving
Option B:	Hot air over
Option C:	Incineration
Option D:	None of these
Q20.	In autoclave, the principle involved is
Option A:	Dry heat
Option B:	Moist heat
Option C:	Steam under pressure
Option D:	Both b and c

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Q21.	At the temperature 160oC for one hour, complete sterilization occurs in
Option A:	Autoclave
Option B:	Hot air oven
Option C:	Laminar flow
Option D:	Incubator
Q22.	Polyvinylpyrrolidone (PVP) is a complex belonging to which group?
Option A:	Phenolic compounds
Option B:	Iodophors
Option C:	Metals
Option D:	Aldehyde
Q23.	Which antibiotic has a beta-lactam ring?
Option A:	Cephalosporin
Option B:	Penicillin
Option C:	Tetracycline
Option D:	Streptomycin
Q24.	If the acid and gas are formed in the multiple tube fermentation technique, the test is _____
Option A:	Positive
Option B:	Continued
Option C:	Negative
Option D:	Discarded
Q25.	The degradation of complex molecules in soil by fungi for utilization by bacteria is an example of which type of association?
Option A:	Neutralism
Option B:	Mutualism
Option C:	Commensalism
Option D:	Antagonism