

MBF-003-001111

Seat No.

[Contd...

F. Y. B. Sc. (Sem. I) (CBCS) Examination

November / December - 2016

Microbiology: Paper-MB. P-101

MB-101 Fundamentals of Microbiology [Old Course]

Faculty Code: 003 Subject Code: 001111

Time: $2\frac{1}{2}$ Hours] [Total Marks: 70]

Instructions: 1. All questions are compulsory 2. Figures on right indicate marks

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Ques.1 Answer the following	20
Fill in the Blanks:	
1) Paramecium is an example of	
2) Spontaneous generation theory was disapproved by	
Antigen Antibody reactions can be studied by Microscopy.	
4)enhances staining capacity in staining methodology.	
5)is nonliving structure of the cell, present external to the cell wall.	
6)granule is source of poly phosphate.	
7)is used as a reference compound to check potency of un	known chemical
disinfectant.	
8) is an example of absorptive radiation.	
9) is part of stain, responsible for charge in stain.	
10) For complete sterilization by autoclave, required temperature at 15 lbs	is
Define:	
1) Pasteurization	
2)Biogenesis	
3) Resolution	
4) Autoradiography	
5) Prosthaecae	
6) Cyst	
7) Sterilization	
8) Leuco compound	
9) Microbiocidal compounds	
10) Mordant	
Ques.2 (A) Answer specifically (Any 3)	3x2=6
1) what is the contribution of L.Spallanzani	OAL O
2)what is magnification? What is d magnification of Light microscopy n elec	tron microscopy?
3)what is chemotaxis	
4)Define Antibiotic.	
5)How hypertonic condition is helpful in sterilization?	
Ques.2 (B) Answer Specifically (Any 3)	3x3=9
1)What is Protista.? Name d organism included in it.	
2)Explain I brief: Phase Contrast Microscopy.	
3)Discuss: Hydrodynamics of flagella	
4) Write in brief about Carmine.	
5) Enlist the characteristics of antibiotics that qualify them as chemotherape	eutic agents

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Ques.2 (C) Write short notes (Any 2) 1)Write a note on spontaneous generation vs Biogenesis 2)Explain in detail: Bright field Microscopy 3)Write a note on Capsule 4)How moist heat is employed in sterilization process? 5)Explain in detail: Staining mechanism of Gram's staining.	2x5=10
Ques.3 (A) Answer specifically (Any 3) 1)Define:Vaccine. Who discovered chicken pox vaccine. 2)what is basic dye/Stain? Give example 3)Draw the structure of Spore 4)Define: Iodophore. 5) Write any two name of Antifungal antibiotics.	3x2=6
Ques.3 (B) Answer Specifically (Any 3) 1)Enlist any three contribution of Loouis Pasture 2)Explain in brief: Dark Field Microscopy 3)Draw the structure of Outer membrane 4)How ethylene oxide is useful in sterilization? 5) Wrtie in brief on Hematoxylin and Brazilin	3x3=9
Ques.3(C) Write short notes (Any 2) 1)Compare n Contrast SEM n TEM 2)Write a note on groups of micro organism 3) Write a note on bacterial Cell Wall 4)Write a note on characteristics of an ideal antimicrobial agents. 5)Discuss in detail Phenol coefficient technique.	2x5=10