

Hemchandracharya North Gujarat University, Patan
Bachelor of Vocation
Pharmaceutical Chemistry Semester IV
End Term Examination, April-May 2017
Subject: PC 412 Fundamentals of Microbiology

Time: 2 hrs

Date:

Marks: 50

Q.1 Answer all questions. Each question carries 1 mark

[9*1=9]

1. Use of Carbolic acid as disinfectant was first given by _____
(a) Joseph Lister (b) Christian Gram (c) Louis Pasteur (d) Paul Ehrlich
2. Thermophiles grow best at temperature above 45°C -----True/False
3. Define : Antigen
4. One difference between Prokaryotes and Eukaryotes
5. Aerobic organisms require _____.
(a) Oxygen (b) Carbon dioxide (c) Both a and b (d) None
6. Glasswares can be sterilized by _____
(a) Dry heat (b) Boiling (c) Both a and b (d) None
7. Gram negative bacteria appear as pink-----True/False
8. Give 2 names of dyes as antimicrobial agents
9. Define : Disinfectant

Q.2 Answer any 5 questions. Each question carries 04 marks

[5*4=20]

1. Explain Vitamin B12 Assay
2. SN: Applied areas of Microbiology
3. Difference between Prokaryotes and Eukaryotes
4. SN: Various classes of Microorganisms
5. Explain : Precipitation Reaction
6. SN: Phenols and Phenolic compounds as Antimicrobial agents

Q.3 Answer any 3 questions. Each question carries 07 marks

[3*7=21]

1. Explain Microbial Assay of Antibiotics
2. SN: Type I Hypersensitivity
3. Explain nutritional types of organisms
4. Classify the organisms based on temperature.