

Vitthalbhai Patel & Rajratna P.T.Patel Science College V.V. Nagar

Internal Test: 2019(Semester III)

Date: 06-03-2019

Sub: Microbiology (US04E MIC-01)

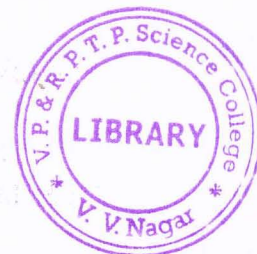
Total Marks: - 50

Time: 03-00 to 05-00 p.m.

Q-1 Attempt all following multiple choice question.

(08)

- (1) E.H. Haeckel proposed the kingdom for unicellular micro organisms that were typically neither plants nor animals is known as
(a) Protista (b) Fungi (c) Algae (d) Prokaryotes
- (2) The mode of nutrition of kingdom animalia is
(a) Absorption (b) Photosynthesis (c) Ingestion (d) Osmosis
- (3) Normal flora of the human body is composed mainly of
(a) Fungi (b) Protozoa (c) Bacteria (d) Viruses
- (4) Which vitamin is requiring by germ free animals, which normal animals do not require?
(a) vitamin C (b) vitamin D (c) vitamin K (d) vitamin B
- (5) The most resistant form of microbial life in the bacteria
(a) Spore (b) Flagella (c) Capsule (d) None of these
- (6) The inhibition of the growth and reproduction of bacteria without killing them is known as
(a) Bacteriostasis (b) Bacteriolysin (c) Bactericide (d) Antibiosis
- (7) A chemical agent that kills bacteria is called:
(a) Bactericide (b) Bacteriostatic (c) Sporicide (d) None of these
- (8) Carboic acid is another name for
(a) Phenol (b) Alcohol (c) β propiolactone (d) None of these



Q-2 Attempt the following. (Any five)

(10)

- (1) Define : (a) Classification (b) Nomenclature
- (2) In which two kingdoms did Linnaeus classify all organisms?
- (3) Explain how a healthy human fetus acquires a normal flora.
- (4) What benefits might a human host derive from the normal flora?
- (5) What is an autoclave?
- (6) Define: Sterilization.
- (7) Explain mode of action of Heavy Metals as Antimicrobial agents.
- (8) List two properties of Ethylene oxide for it to be used as a sterilant.

Q-3 Enlist various criteria used for classification of bacteria and explain any three in detail. (08)

OR

Q-3 (A) Explain "Whittaker five kingdom concept" (05)

(B) Explain in brief Bergey's manual of systemic bacteriology. (03)

Q-4 Define infection and explain various types of infection. (08)

OR

Q-4 Write notes on Gnotobiotic life. (08)

Q-5 Justify the use of moist heat as antimicrobial agents. (08)

OR

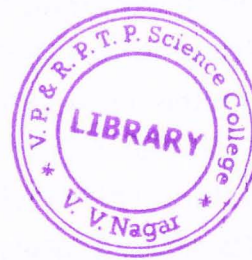
Q-5 (A) U.V. radiations as antimicrobial agent. (04)

(B) Osmotic pressure as antimicrobial agent. (04)

Q-6 Write on characteristics of an ideal antimicrobial agent. (08)

OR

Q-6 Write on Practical application and Mode of action of Phenols and Alcohols. (08)



*****-End-*****