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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) Carbolic acid is another name for

(a) Phenol (b) Alcohol (c) β propiolactone (d) None of theses

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)

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