

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

Internal Test: 2019(Semester IV)

Date: 06-03-2019

Sub: Microbiology (US04CMIC-01)

Total Marks: - 50

Time: 3-00 p.m. to 5-00 p.m.

Q-1 Attempt all following multiple choice question. (08)

- (1) Normal animals do not require this vitamin.
(a) Vitamin B (b) Vitamin C
(c) Vitamin K (d) None of them.
- (2) In human body which area has the largest microbial population ?
(a) Stomach(b) Duodenum(c) Jejunum(d) Colon.
- (3) Which of the following is used for effective mixing of medium in fermenter?
(a) Sparger (b) Impeller (c) Shaft (d) All of them.
- (4) Which is a prerequisite for industrial microbial process?
(a) The organism (b) The medium(c) The product (d) All of these.
- (5) Fractional sterilization is also known as:
(a) Pasteurization (b) Incineration (c) Tyndallization (d) None of these
- (6) A wavelength of U.V.having highest bactericidal effect is:
(a) 2650 A° (b) 2500 A ° (c) 2750 A ° (d) 2800 A°.
- (7) The test organism used in phenol coefficient method is:
(a) Eschericha coli
(b) Staphylococcus aureus
(c) Bacillus subtilis
(d) All of the above.
- (8) Following is a triphenylmethane dye:
(a) Malachite green. (b) Brilliant green. (c) crystal violet. (d) All of them.



Q-2 Attempt the following. (Any five) (10)

- (1) Define: (A) virulence (B) Gnotobiosis
- (2) Differentiate between endotoxin and exotoxin.
- (3) What is droplet nuclei?
- (4) Give two examples of air borne diseases transmitted by bacteria.
- (5) Define: (A) Thermal death time (B) Decimal reduction time.
- (6) Briefly describe the mode of action of antimicrobial agents..
- (7) Define (A) Disinfectant (B) Sanitizer.
- (8) Which factors are required for selecting most appropriate chemical agent?

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Q-3 Explain with example Types of infection. (08)

OR

Q- 3 Write in detail on normal flora of Intestinal tract. (08)

Q-4 Describe ideal characters of designing and construction of a fermenter. (08)

OR

Q-4 Enlist various methods of enumeration of air flora and explain any two in detail. (08)

Q-5 Describe in detail on control of microorganism by High temperature. (08)

OR

Q-5 Write a note on :(A) control by filtration (05)

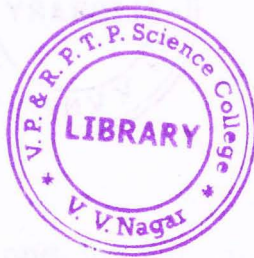
(B) Control by Desiccation. (03)

Q-6 Describe the characters of ideal antimicrobial chemical agent. (08)

OR

Q-6 (A) Write the mode of action and practical application of Iodine. (04)

(B) Write a note on phenol coefficient method. (04)



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