

P. S. SCIENCE & H. D. PATEL ARTS COLLEGE, KADI

Internal Examination MARCH-2019

B. Sc. Semester- IV

Biotechnology: CC-BT-402 [Mark 40]

(Fundamentals of Microbiology)

DATE-07/03/19

[2Hrs]

Q.1 MULTIPLE CHOICE QUESTIONS 1*10=10

- 1) The temperature that allows for most rapid growth during a short period of time is known as
 - a) Minimum Temperature
 - b) Maximum Temperature
 - c) Optimum Temperature
 - d) Growth Temperature
- 2) Mesophiles are group of bacteria that grow within the temperature range of?
 - a) 0-20degree Celsius
 - b) 25-40 degree Celsius
 - c) 45-60degree Celsius
 - d) more than 60 degree Celsius
- 3) The organisms which can use reduced inorganic compounds as electron donors are known as _____
 - a) chemotrophs
 - b) organotrophs
 - c) lithotrophs
 - d) phototrophs
- 4) The correct order of taxonomic groups from higher to lower rank is?
 - a) Kingdom—Order—Class—Family
 - b) Order—Class—Division—Family—Genus—Species
 - c) Kingdom—Order—Division—Family—Class—Genus—Species
 - d) Kingdom—Division—Class—Order—Family—Genus—Species
- 5) Bacteria with less than a complete twist or comma shaped is known as?
 - a) spirilla
 - b) helical
 - c) vibrioid
 - d) spirochetes
- 6) Which of the following instrument is used for sterilizing the media after it has been prepared?
 - a) Autoclave
 - b) Laminar Air Flow Chamber
 - c) Inoculum Needle
 - d) Incubator
- 7) Bacterial cell wall is made up of
 - a) Chitin
 - b) cellulose
 - c) Dextran
 - d) Peptidoglycan
- 8) Bacteria reproduce vegetatively by
 - a) Fission only
 - b) Fission and fragmentation
 - c) Fission, fragmentation and budding
 - d) None of the above
- 9) Which of the following is a differential media
 - a) MacConkoy's agar
 - b) EMB agar
 - c) Both a) & b)
 - d) None a) & b)
- 10) which of the following is the commercial product obtained from the walls of Algae.
 - a) Agar Agar powder
 - b) Carrageenan
 - c) Alginic acid
 - d) All of the above

Q.2 Answer the following. Each question carries 5 marks(Any four)

5*4=20

- 1) Explain bacterial growth curve with diagram.
- 2) Give biological and economic importance of Algae.
- 3) Define the following with examples
 - i) Sterilization
 - ii) Disinfection
- 4) What is chemotherapy and write about chemotherapeutic agents.
- 5) Describe methods of isolation of bacteria.
- 6) Explain briefly about the types of culture media.

Q.3 Answer the following. Each question carries 10 marks(Anyone) 10*1=10

- 1) Give general characteristics and economic importance of fungi.
- 2) Explain the different types of chemical agents used to control microbial growth.