TELANGANA UNIVERSITY S.S.R. DEGREE COLLEGE, NIZAMABAD (C.C:5029) II SEMESTER INTERNAL ASSESSMENT II EXAMINATIONS BIOTECHNOLOGY QUESTION BANK

- According to Pasteur statements which one of the following is true
 - a. Living organisms discriminate between stereoisomers
 - b. Fermentation is a aerobic process
 - Living organisms doesn't discriminate between stereoisomers
 - d. Both a and b
- "I found floating therin earthly particles, some green streaks, spirally wound serpent-wise, and orderly arranged, the whole circumstance of each of these streaks was abut the thickness of a hair on one's head".... These words are of

a. Leeuwenhoek

b. A. Jenner

c. Pasteur

d. Koch

 The principle light- trapping pigment molecule in plants, Algae, and cyanobacteria is

a. Chlorophyll a

b. Chlorophyll b

c. Porphyrin

d. Rhodapsin

- During Bio Geo chemical cycle some amount of elemental carbon was utilized by the microorganisms. The phenomenon is called as
 - a. Dissimilation
 - b. Immobilization
 - c. Decomposition
 - d. Neutralization

Who demonstrated that open tubes of broth remained free of bacteria when air was free of dust.

a. Abbc Spallanzani b. John Tyndall

c. Francisco Redi d. Pasteur

Reverse isolation would be appropriate for

a. a patient with tuberculosis

b. a patient who has had minor surgery

c. a patient with glaucoma

d. a patient with leukemia

The symptome " general feeling of illness and discomfort " is called

a. Cystitis

b. Malaise

c. Anaphylactic shockd. Arthritis

 On soybean which of the following forms symbiotism

a. Azatobactor paspali

b. Rhizobium

c. Nostoc

d. Bradyrhizobium

Who provide the evidence that bacteriophage nucleic acid but not protein enters the host cell during infection

a. Alfred D.Hershey & Leonard Tatum in 1951.

b. Alfred D.Hershey & Zindar Lederberg in 1951.

c. Alfred D.Hershey & Martha Chase in 1952.

d. Alfred D.Hershey & Macleod in 1952.

1. When a bacterial cell and mitochondria are treated with cyanide and carbon monoxide what happens initially?

- a. Respiration inhibits
- b. Photosynthesis inhibits
- c. Protein synthesis inhibits
- d. No effect occurs

2. Which virus was first observed?

- a. Hepatitis Virus
- b. TMV
- Cauliflower mossaic virus
- d. None of these

3. The most important energy-yielding reaction for an aerobic organism is

- a. Glycosis
- b. EMP
- c. KDPG
- d. Both b and c

4. A disease that can be transmitted by an infectious agent from one individual to another was called

- a. Epidemic
- b. Pandemic
- c. Communicable
- d. Comma

5. Cell cycle regulated by

- a. Cyclins
- b. Cdks
- c. Cyclins and Cd ks d. None of these

6. The proteinaceous compound are converted to ammonia by

a. Putrification bacteria

- b. Ammonifiaction bacteria
- Nitrification bacteria
- d. Denitrifying bacteria

7. A cell becomes flaccid when placed in a

- a. Isotonic solution
- b. Hypertonic solution
- c. Hypotonic solution
- d. Normal solution

8. A mutation causing a substitution of one amino acid is called

- a. Point mutation
- b. Silent mutation
- Missence mutation d. None of these

9. The formation spindle fibres in the process of cell division is prevented by

- a. Corchicine
- b. ATP
- c. Hydrazine
- d. All of these

10. Important class of respiratory enzymes:

- g. NAD
- b. Cytochromes
- c. ATPase
- d. Hydrolases

11. The primary mode of transmission of poliomyelitis virus:

- a. Flies
- b. Milk
- c. Person to person d. Food and water

12. Genetic constitution of the cell is

- a. Phenotype
- b. Genotype
- c. Cryptotype
- d. Histotype

Cold like symptoms are caused by which bacteria

- a. Pseudomonas
- b. E.coli
- c. Haemophilus influenza
- d. Haemophilus streptococcus

2. In Streptococcus fecalis, the conjugation takes place at

- a. Pili
- b. Cell membrane
- c. Cell wall
- d. Flagella

3. The infected mad dogs may contain

- a. Nergi bodies
- b. Niagri bodies
- c. Negri bodies
- d. Neisser bodies

4. What disease the Nesser will produce?

- a. Mumps
- b. Rubella
- c. Polio
- d. Measles

5. Rancidity in spoiled foods is due to

- a. Lipolytic organisms
- b. Proteolytic organisms
- c. Toxigenic microbes
- d. Saccharolytic microbes

The Baterium that is most commonly used in genetic engineering is

- a. Escherichia
- b. Klebsiella
- c. Proteius
- d. Serratia

7. The functions of plasmid are

- a. DNA replication
- b. Protein synthesis
- c. Cell wall synthesis
- d. None of the above

8. Mycoplasmas are bacterial cells that

- a. Fail to reproduce on artificial meida
- b. Have a rigid cell wall
- c. Are resistant to penicillin
- d. Stain well with Gram's stain

9. The etiologic agent of botulism is a

- a. Neurotoxin
- b. Endotoxin
- c. Enterotoxin
- d. All of the above

The bacterial cells are at their metabolic peak during

- a. Lag phase
- b. Log
- c. Stationary
- d. Decline

Protein particles which can infect are called

- a. Virons
- b. Prions
- c. Nucleoida
- d. None of these

In most of purple bacteria, the light harvesting centers are

- a. B 850 & Fe-S
- b. B 850 & B 875
- c. B 845 & B 875
- d. B 850 & B830

The medium used in membrane filter technique was

- a. EMB agar
- b. EMR-Vp medium
- c. Lactose broth
- d. Endo agar

2. Lysol is a

- a. Sterilent
- b. Disinfectant
- c. Antiseptic
- d. Antifungal agent

3. Which of the following is a neutral stain?

- a. Picric acid
- b. Gmiemsa
- c. Neutral red
- d. Malachite green

4. Peptone water medium is an example for

- a. Synthetic medium
- b. Semisynthetic medium
- c. Differential medium
- d. None of these

The method in which the cells are frozen dehydrated is called

- a. Pasteurization
- b. Dessication
- c. Disinfection
- d. Lypophilization

6. The technique used to avoid all microorganisms is accomplished by

- a. Sterlization
- b. Disinfection
- c. Surgical sterilization
- d. Disinfection Sterilization

7. Thermal death time is

- Time required to kill all cells at a given temperature
- b. Temperature that kills all cells in a given time
- c. Time and temperature needed to kill all cells
- d. All of the above

A culture medium the exact composition of which is not known was called as

- a. Simple
- b. Complex
- c. Defined
- d. Natural

Elek's gel diffusion test is used for the detection of

- a. Tetani toxin
- b. Cholera toxin
- c. Diophtheria toxin d. Toxoid

Temperature required for pasteurization is

- a. Above 150°C
- b. Below 100°C
- c. 110°C
- d. None of these

Separation of a single bacterial colony is calle

- a. Isolation
- b. Separation
- c. Pure culturing
- d. All of these

12. Which of the following is ionizing radiation?

- a. U.V. rays
- b. IR
- c. y-rays
- d. None of these

Short answers

- 1. What are normal flora?
- 2. What is sterilization?
- 3. What is cryopreservation?
- 4. What is microbial growth?
- 5. What is incubation?