

C.U.SHAH UNIVERSITY

Summer Examination-2022

Subject Name : Clinical Microbiology-Theory

Subject Code : 3SC02CLM1

Branch: PGDMLT

Semester : 2

Date : 04/07/2022

Time : 11:00 To 02:00

Marks : 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

Q.1 Attempt following questions.

[14]

1. . Metachromatic granule is best demonstrated by___ ;
 - a. a. Albert Stain
 - b. c. Gram Stain
 - b. Giemsa Stain
 - d. Modified Z N Stain
2. Lipopolysaccharide is a component of cell wall of:
 - a. Gram positive bacteria
 - b. Virus
 - b. Gram negative bacteria
 - d. Fungi
3. The organisms that require 5-10% of CO₂ for their growth are called as:
 - a. Microaerophilic bacteria
 - c. Capnophilic bacteria
 - b. Aerotolerant anaerobe
 - d. Obligate aerobes
4. Endoscope is sterilized by:
 - a. Glutaraldehyde
 - b. Formaldehyde
 - c. Autoclave
 - d. Hot Air Oven
5. Which of the following is an example of artificial passive immunity?
 - a. Exposure to Chicken pox
 - c. Tetanus toxoid
 - b. Breast milk
 - d. Rabies immunoglobulin
6. Which of the following immunoglobulin is a pentamer?
 - a. IgG
 - b. IgM
 - c. IgA
 - d. IgE
7. Which of the following tests is used to diagnose Typhoid?
 - a. CRP
 - b. RPR
 - c. RA
 - d. Widal
8. Which of the following bacteria gives coagulase test positive?
 - a. Staphylococcus aureus
 - c. Staphylococcus epidermidis
 - b. Staphylococcus saprophyticus
 - d. Staphylococcus hominis
9. Which of the following is the infective form of the malarial parasite to man?
 - a. a. Merozoite
 - b. Trophozoite
 - b. Sporozoite
 - c. Gametocyte
10. Which of the following is the correct sequence of Doffing of PPE kit?
 - a. Gown- Goggles- Mask- Gloves
 - b. Gloves- Goggles- Gown- Mask
 - c. Mask- Gown- Gloves- Goggles
 - d. Gown - Gloves- Goggles- Mask



11. Which of the following steps should NOT be done in case of Needle stick injury?
- Wash the hand with soap and water
 - Report to the concerned authority
 - Testing for blood borne viruses
 - Press the finger and allow the blood to flow as much as possible
12. Which of the following Hepatitis virus is DNA virus?
- Hepatitis C virus
 - Hepatitis B virus
 - Hepatitis A virus
 - Hepatitis D virus
13. Gram positive budding yeast cells with pseudohyphae are characteristic of which fungal agent?
- Candida
 - Mucor
 - Aspergillus
 - Cryptococcus
14. Which type of motility is observed in hanging drop preparation of Vibrio cholera?
- Darting
 - Gliding
 - Tumbling
 - Corkscrew

Attempt any four from Q-2 to Q-8

Q-2. Attempt all questions: [14]

- Draw a labeled diagram of typical bacterial cell. Describe bacterial spores.
- Classify culture media. Describe enriched media with suitable examples.

Q-3. Attempt all questions: [14]

- Define sterilization. Describe in detail about principle, uses and controls of Autoclave.
- Write a short note on Segregation and disposal of Bio Medical Waste

Q-4. Attempt all questions: [14]

- Describe Disc diffusion method of Antibiotic Susceptibility Testing.
- Write a short note on types of ELISA.

Q-5. Attempt all questions: [14]

- Classify Immunity. Describe artificial acquired immunity.
- Structure and functions of IgA.

Q-6. Attempt all questions: [14]

- Laboratory Diagnosis of Malaria.
- Route of transmission and laboratory diagnosis of HIV infection.

Q-7. Attempt all questions: [14]

- Route of transmission and laboratory diagnosis of COVID 19.
- Laboratory Diagnosis of Typhoid.

Q-8. Attempt all questions: [14]

- Laboratory Diagnosis of Dermatophytosis.
- Describe the life cycle of Round worm.

