Section A. Multiple choice questions.

١.	In the definition of "Evidence based Medicine" which term means "Careful and honest
	about doing one's work properly"?

- a) Judicious
- b) Explicit
- c) Conscientious
- d) All of the above
- e) None of the above



2. Which diagnostic question assesses the risk of the patient's condition?

- a) How is the patient doing?
- b) What is the patient's prognosis?
- c) What is the diagnosis?
- d) Any of the above
- e) None of the above

3. The greatest overlap between the different symbiotic relationships occurs between:

- a) Phoresis and Parasitism
- b) Phoresis and Mutualism
- c) Commensalism and Mutualism
- d) Parasitism and Mutualism
- e) Any of the above

4. To which Kingdom do protozoan parasites belong?

- a) Animalia
- b) Protista
- c) Fungus
- d) Monera
- e) None of the above

5. What is the total volume of blood in a woman weighing 80 Kg?

- a) 5.2L (
- b) 6.0L
- c) 4.8L
- d) 5.6L
- e) None of the above



- 6. Which one of the following White blood cell count lies within the normal count?
- a) 2,000/µL
- b) 3,000/µL
- c) 12,000/µL.
- d) 13,000/µL
- e) None of the above

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- 7. Physiological level of a biochemical disorder can be determined in which state of the patient?
- a) Resting
- b) Stressed
- c) Confused
- d) Any state
- e) Any of the above
- 8. Which one of the following body chemicals has a normal range similar for both men and women regardless of age?
- a) Zine
- b) Iron
- c) Phosphate
- d) Copper
- e) Magnesium
- 9. The following statements on prokaryotic cells is correct except?
- a) Cells have no true nucleus
- b) Most are unicellular
- c) They lack mitochondria
- d) They are larger than eukaryotic cells
- 10. Binary fission:
- a) Occurs in eukaryotic cells
- b) Is a process of sexual reproduction
- c) Results in identical copies of the mother cell
- d) Occurs as a result of mutations

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- Auramine-rhodamine is a fluorescent dye that stains acid fast organisms
 - b) The gram stain is used to detect blood parasites
 - Potassium hydroxide is used as a contrast stain
 - d) India ink is used to differentiate gram positive bacteria from gram negative bacteria

12. What is the correct order of staining reagents in a Gram staining procedure?

- a) Crystal violet Alcohol Iodine Safranin
- b) Crystal violet Iodine Alcohol Safranin
- e) Iodine Safranin Crystal violet Alcohol
- d) Alcohol Crystal violet Iodine Safranin
- e) Crystal violet Safranin Alcohol Iodine

13. The correct way to write the genus and species names of bacteria is

- a) Staphylococcus aureus
- b) staphylococcus aureus
- c) Staphylococcus Aureus
- d) staphylococcus Aureus
- e) Staphylococcus. Aureus

14. The ability of an infectious agent to cause disease is called

- a) Virulence
- b) Toxigenicity
- c) Pathogenicity
- d) Infection
- e) Invasion

15. Poxvirus is a

- a) Bullet shape
- b) Rod shape
- c) Brick shape
- d) Filamentous shape

16. Viral peplomers are composed of

- a) Carbon
- b) Phosphorus
- c) Calcium
- d) Glycoproteins

- 17. Which of the following is the smallest virus?
- a) Rabies virus
- b) Hepatitis virus
- c) Parvovirus
- d) Tobacco mosaic virus
 - 18. Who is considered the "father of immunology"?

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- a) Edward Jenner
- b) Robert Koch
- c) Louis Pasteur
- d) Emil von Behring
- 19. Which historical event led to the discovery of vaccines and the development of immunization techniques?
- a) The discovery of antibiotics
- b) The Black Death pandemic
- c) The Spanish Flu pandemic
- d) The invention of the microscope
- 20. Which of the following is a physical barrier in innate immunity that prevents entry of pathogens?
- a) Cytokines
- b) Interferons
- c) Mucous membranes
- d) T cells

Section B. Short answer questions.

- Define the following parasitology terms:
- a) Symbiosis
- b) Parasitism
- c) Definitive host
- d) Zoonosis
- e) Vector
- 2. In selecting laboratory tests for a Biochemical disorder, which questions about the patient are you seeking answers? Which answers are provided by these questions?
- List the major microscopic methods and give details of the features of each method that differentiate it from other microscopic methods.
- Bacteria can be either pathogenic or commensal. Describe the features that make some bacteria pathogenic.
- 5. Explain to primary and secondary immune response after a SARS-COV2 infection.

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