

CBU School of medicine MBS 240 (Laboratory science) Term-1

Multiple Choice Questions (20 marks)

Choose one correct answer
There are 20 questions
Answer all questions

The following virus has a complex symmetry:

1 point

- ☐ Adenovirus
- ☐ Pox virus
- ☐ SARS 2 Coronavirus
- ☐ Retroviruses
- ☐ Influenza virus

The following take part in innate immunity except.

1 point

- ☐ Damage associated molecular pattern
- ☐ T-cell Receptor
- ☐ Pathogen associated molecular pattern
- ☐ Pathogen recognition receptor



In a patient whose proportion of plasma in blood is 60%, what is the proportion of Packed Cell Volume?

1 point

- ☐ 55%
- ☐ 45%
- ☐ 40%
- ☐ 70%
- ☐ None of the above

Which of the following listed microscopes has the highest resolution?

1 point

- ☐ Electron microscope
- ☐ Fluorescent microscope
- ☐ Compound microscope
- ☐ Phase contrast microscope
- ☐ Darkfield microscope

Flow cytometry is used in:

1 point

- ☐ Cell counting
- ☐ Determining hematocrit
- ☐ Cell sorting
- ☐ Detecting microorganisms
- ☐ All of the above



The ability of an infectious agent to cause disease is called:

1 point

- ☐ Virulence
- ☐ Toxigenicity
- ☐ Pathogenicity
- ☐ Infection
- ☐ Invasion

In parasitism Host specificity is determined by factors such as:

1 point

- ☐ Genetic
- ☐ Ecologic
- ☐ Immunologic
- ☐ All of the above
- ☐ None of the above

Which of the following statements on cellular organelles is correct?

1 point

- ☐ Some eukaryotic cells have extra-chromosomal genetic material in the form of plasmids
- ☐ The Golgi apparatus is responsible for modification and transport of macromolecules
- ☐ Ribosomes are the site for conversion of chemical energy of food to ATP
- ☐ The endoplasmic reticulum plays a role in digestion of nutrients and bacteria within the cell
- ☐ All of the above



In which one of the following symbiotic relationships is there NO physiological dependence of either both or one of the symbionts?

1 point

- ☐ Parasitism
- ☐ Commensalism
- ☐ Phoresis
- ☐ All of the above
- ☐ None of the above

What is the approximate total blood volume for a 50 kg woman?

1 point

- ☐ 3.25 L
- ☐ 3.75 L
- ☐ 2.5 L
- ☐ 3 L
- ☐ None of the above

One of the following is as a result of Tissue change due to parasitic infection:

1 point

- ☐ Neoplasia
- ☐ Fatty degeneration
- ☐ Necrosis
- ☐ Albuminous degeneration
- ☐ None of the above



The following statements on meiosis are true except:

1 point

- ☐ There are two divisions
- ☐ Division results in four haploid daughter cells containing half as many chromosomes as the parent cell
- ☐ Division results in two daughter cells that are genetically identical to the parent cell
- ☐ DNA replication occurs during interphase before meiosis
- ☐ Meiosis is responsible for production of gametes

Viruses are released from the cells by:

1 point

- ☐ Excretion
- ☐ Budding
- ☐ Ejection
- ☐ Adsorption
- ☐ Hemostasis

Renal excretion of one of the following chemicals is not altered by age:

1 point

- ☐ Bicarbonate
- ☐ Potassium
- ☐ Iron
- ☐ Sodium
- ☐ Chloride



Steady state:

1 point

- ☐ Is the same as Chemical equilibrium
- ☐ Free energy is not continuously put into the system in this state
- ☐ Is the same as Dynamic equilibrium
- ☐ All of the above are correct
- ☐ All of the above are false

Hydropic degeneration due to Parasitic infection is the same as:

1 point

- ☐ Fatty degeneration
- ☐ Parenchymatous degeneration
- ☐ Hypertrophy
- ☐ Hyperplasia
- ☐ None of the above

Capnophilic bacteria:

1 point

- ☐ Strictly require CO₂ for their growth
- ☐ Cannot use O₂ for growth but tolerate its presence
- ☐ Are capable of growing either in presence or absence of O₂
- ☐ Strictly require O₂ for their growth
- ☐ Require increased concentration of CO₂ for their growth



The following are stains used for microscopic examination, except?

1 point

- ☐ India ink
- ☐ Wright-Giemsa
- ☐ Gram stain
- ☐ Potassium hydroxide
- ☐ Ziel-Neelsen stain

What information is given by urinary excretion of a substance?

1 point

- ☐ Rate of breakdown of the substance
- ☐ Rate of production of that substance
- ☐ Rate of intake of that substance
- ☐ All of the above
- ☐ None of the above

Which of the following is a primary lymphoid organ?

1 point

- ☐ Mucosal associated lymphoid tissue
- ☐ Thymus
- ☐ Spleen
- ☐ Lymph node

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Short answer questions (30 marks)

Write short notes on 3 out of the 5 questions.
10 Marks are allocated to each question.

Outline the interaction of pathogenic bacteria with a human host, outlining the processes from entry of bacteria into the host to damage caused by the bacteria.

Your answer

Describe what a standard Operating procedure manual is. What are its essential features?

Your answer

The plasma chloride reading for a patient is 120 mEq/l. The normal range of plasma chloride is 96-106 mEq/L. What is the meaning of the patient's reading? Which factors influence the normal range for this analyte?

Your answer



Immune cells must become tolerant to the structures in our own bodies. What is meant by the term tolerance?

Your answer

Viral classification and replication: a) State 4 ways in which viruses are classified.(5 marks) b) In order of occurrence, state 5 viral replication steps (5 marks).

Your answer

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