

Royal College of Arts, Science & Commerce
Sample Questions
FYBSc Semester I
Microbiology Paper I (USMB 101)

Note: Each multiple choice question in section I carries 1 mark.
Each multiple choice question in section II & III carries 2 marks.

Section I

- Q.1 _____ is the father of modern aseptic surgery.
- i) Louis Pasteur
 - ii) Joseph Lister
 - iii) Robert Koch
 - iv) John Tyndall
- Q.2 _____ is a metabolic plasmid.
- i) R100 plasmid
 - ii) CAM plasmid
 - iii) ColE1 plasmid
 - iv) K88 plasmid
- Q.3 _____ is a reducing sugar.
- i) Sucrose
 - ii) Cellulose
 - iii) Glucose
 - iv) Pectin
- Q.4 DNA does not contain _____
- i) Thymine
 - ii) Cytosine
 - iii) Uracil
 - iv) Adenine
- Q.5 Which safety cabinet is provided with rubber gloves attached to the system?
- i) Class I
 - ii) Class II
 - iii) Class III
 - iv) Class I & III

Section II

- Q.1 _____ is responsible for resistance of endospore.
- i) Loss of water
 - ii) Lack of nutrients
 - iii) Presence of water
 - iv) Formation of capsule

- Q.2 _____ proteins are associated with basal body of bacterial flagella.
- i) MreB and Mot
 - ii) Mot and fli
 - iii) Mot and P_Xe
 - iv) Fil and Rex
- Q.3 Proteins synthesized on ribosomes of RER & tagged with phosphates on mannose sugar by golgi, are destined to move to.
- i) Lysosome
 - ii) Endoplasmic reticulum
 - iii) Cell membrane
 - iv) Cytoplasm
- Q.4 _____ amino acid has a guanidine group.
- i) Asparagine
 - ii) Arginine
 - iii) Lysine
 - iv) Glutamine
- Q.5 Caveolin mediated endocytosis helps intake of _____.
- i) Large food particle
 - ii) Folic acid
 - iii) Cholesterol
 - iv) Iron

Section III

- Q.1 _____ H-O-H bond in water is _____ degree.
- i) 102.5
 - ii) 108.5
 - iii) 104.5
 - iv) 109.5
- Q.2 _____ is a glycolipid.
- i) Phosphatidyl serine
 - ii) Cerebroside
 - iii) Triglyceride
 - iv) Stearic acid
- Q.3 The function of lipoprotein in outer membrane of bacteria is to
- i) strengthen the cell wall
 - ii) anchor the outer membrane to PG
 - iii) transport nutrients
 - iv) act as an endotoxin

Q.4 _____ have rigid, sculptured structure.

- i) Capsule
- ii) Slime
- iii) S layer
- iv) Glycocalyx

Q.5 Amoeboid movement & protoplasmic streaming is mediated by .

- i) Microtubules
 - ii) Microfilaments
 - iii) Intermediate filaments
 - iv) Pseudopodia
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