Royal College of Arts, Science & Commerce Sample Questions SYBSc Semester III Microbiology Paper III (USMB 303)

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

Section I

- Q1 Which enzyme is used to cut DNA molecules?
- a Helicase
- b DNA Ligase
- c Restriction endonuclease
- d Reverse transcriptase
- Q2 The process of killing all microorganisms along with their spores is _____
- a Disinfection
- b Antisepsis
- c Sanitization
- d Sterilization

Q3 Which of the following is not a chemical agent for microbial control?

- a Radiations
- b Antibiotics
- c Antiseptics
- d Germicide
- Q4 Which of the following methods is used for killing microorganisms of only certain types and not all microorganisms?
- a Pasteurization
- b Incineration
- c Autoclaving
- d Fractional Sterilization
- Q5 Which of the following is used as a solidifying agent for media?
- a Beef extract
- b Peptone
- c Agar
- d Starch

Section II

- Q6 Which phase shows the reproduction rate equal to the equivalent death rate?
- a Log phase
- b Stationary phase
- c Death phase
- d Lag phase

Contd.....

- Q7 Which of the following is trace element?
- a Potassium ion
- b Sodium ion
- c Copper ion
- d Magnesium ion

Q8 What percentage of alcohol is used for disinfection?

- a 20%
- b 70%
- c 90%
- d 100%

Q9 Which enzyme is active at 72° in the PCR cycle?

- a isomerase
- b exonuclease
- c polymerase
- d endonuclease

Q10 Southern blotting Technique is used for separation & identification of _____

- a Proteins
- b DNA
- c RNA
- d Enzymes

Section III

- Q11 Solid phase synthesis is used in making of _____
- a Synthetic DNA
- b Clones of DNA
- c Copies of DNA
- d Nucleotides

Q12 Which cloning vector carries both ampR & URA3 as Selectable markers?

- a pUC19
- b YEp24
- c YAC
- d BAC
- Q13 The organisms which can use reduced inorganic compounds as electron donors are known as _____
- a autotrophs
- b organotrophs
- c lithotrophs
- d phototrophs

Contd...

- Q14 Which of the following conditions are required for the determination of thermal death time?
- a temperature is varied
- b time is fixed
- c temperature is fixed and time is varied
- d temperature is fixed and time is fixed
- Q15 Which of the following actions occur due to low temperature?
- a coagulation of proteins
- b death of microorganisms
- c rate of metabolism is reduced
- d denaturation of proteins

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