



Final semester examination of first semester 2016-2017 *Fifth attempt*

Note : answer all questions

Q1/ Choose only one answer: ( answer 10 only ) 10 Marks

- 1- Who disproved spontaneous generation  
a- Louis Pasteur      b- Joseph Lister      c- Robert Koch
- 2- Prions :  
a- are only composed of RNA.      B- are only composed of DNA.  
c- are only composed of protein.
- 3- clear zone of hemolysis on blood agar called  
a- alpha hemolytic      b - Gamma-hemolytic      c - Beta-hemolytic
- 4- *Streptococcus pneumoniae*, causes -  
a- pneumonia      b- scarlet fever      c- dental caries
- 5- causative agent of Tetanus  
a- *Clostridium botulinum*      b- *Clostridium perfringens*      c- *Clostridium tetani*
- 6- used as an indicator of fecal contamination, Food Contamination  
a- *Klebsiella*      b- *Salmonella typhi*      c- *Escherichia coli*
- 7- Radition used for control on microbial growth in  
a- Pharmaceutical and medicinal and dental supplies      b- food preservation  
c- fruit juice
- 8- develop from spores or other hyphae fragments  
a- fungi      b- bacteria      c- protozoa
- 9- For Sterilizes blood bags for transfusion and other plastics we use:  
a- Iodine      b- Alcohols      c- Ethylene Oxide
- 10- Which genera are capable of producing endospores?

a. *Streptomyces*      b. *Clostridium* and *Bacillus*      c. *Escherichia*

11- The pattern of cell numbers over time in the stationary phase is most likely due to:

- a. concurrent growth and death of cells
- b. exponential growth of cells
- c. constant inputs of fresh nutrients to the system

Q2/ Define the following terms:- (Two only)      5 Marks

Pasteurization , Normal Flora (Microbiota) , Nosocomial

Q3/ What are the reservoir of infection      5 Marks

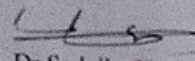
Q4/ Answer one branch only      10 Marks

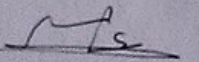
a- Enumerate the Probable reasons for emerging infectious diseases


b- Enumerate Methods of Classifying and Identifying Microorganisms

Q5/ Explain *Koch's postulates*      5 Mark

Q 6/ Itemize phases of microbial growth      5 Mark

  
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