



University of Technology
Department of Applied Sciences
Final Examination 2015/2016



Subject: Microbiology
Branch: Biotechnology
Examiner: Ass.prof.Dr.Majid S. Jabir

Class: Second year
Time: 3 hours
Date: 15.06.16

Q1: Match between column A and column B. ^{12.5}~~15~~ mark

A

- 1- Solid medium
- 2-Acidophilic
- 3-Biochemical test
- 4- Gram negative cell wall
- 5-Zeil-Neelsen staining
- 6- A nutritional mutant
- 7- Polyhedral
- 8-Coagulates proteins disrupts cell membrane
- 9-Obligate anaerobic bacteria
- 10- Fractional sterilization
- 11- Bacteriophages
- 12-Conjugation
- 13-Base pairs
- 14-Hydrolase
- 15- Pyrodictum

B

- A- Hyperthermophile
- B- Glucose-6-phosphate
- C- Frameshift mutation
- D- F factor
- E- Transduction
- F- Tyndalization
- G- *Clostridium*
- H- Phenol
- I- Adenovirus
- J-Auxotroph
- K- Robert Kock
- L-Lipopolysaccharide
- M-Lactose fermentation
- N-*Sulfolobus*
- O- Edward Jenner

Q2: Mention the following (Answer ^{12.5}~~2~~ Only). ~~15~~ mark

- 1- Properties of antiseptic or disinfectant.
- 2- Koch's postulates.
- 3- Viral replications steps.
- 4- Methods of microorganism's classification.

Q3: Compare between the followings (Answer 2 only). ^{12.5}~~15~~ marks

- 1- Barophilic and Halophilic microorganisms.
- 2- Gram's positive and Gram's negative microorganisms.
- 3- Isomerise and Oxidoreductase enzymes.

درست است



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12.5

Q4: Choose the best answer. (Answer only 10) ~~15~~ mark.

1-Protect the cell and assists in attaching the cells.

A- Pilus B- Capsule and slime layer C- Flagellum

2-Is the period during which cell death becomes substantial.

A- Stationary phase B- Decline phase C-Log phase

3-Mesophilic mo. has growth optimum around.

A- 0-7°C B- 20-40°C C- 55-65°C

4-Theory of spontaneous generation was disapproved by.

A-Robert Koch B- Louis Pasteur C- Edward Jenner

6-Lipid bilayer containing viral glycoprotein.

A- Capsid B- Envelope C- Nucleocapsid

7-Protects the bacterial cell and gives the shape is.

A- Outer membrane B- Cell wall C- Cell membrane

8-Most bacteria reproduce by.

A- Mitosis B- Binary fission C- Meiosis

9-The process of destroying pathogens is called.

A- Disinfectant B- Disinfection C- Disinfected

10-This machine draws air out of sterilizing.

A- Autoclave B- Prevacum autoclave C- HEPA filter

11-A protein component of an enzyme is called.

A- Holoenzyme B- Apoenzyme C- Cofactor

12-Where the RNA polymerase and the newly formed are mRNA released.

A- Transcription B- Terminator site C- Promoter site