

Faculty of Computers & Artificial Intelligence

2st Term (2019-2020) Final Exam

class: year

Course Code: Course name:



Benha University
Final Date: 7 / 6 /2020

Total Marks: Pass / Fail

Examiner(s): Dr. Mohamed othman

Research submission: From 31 May to 7 June 2020

a) Write a research project in ONE of the following topics:

Topic No. 1 Biological cells and living organisms: Includes the following research points.

- 1- MOLECULES OF LIFE
- 2- PROKARYOTIC CELLS
- 3- EUKARYOTIC CELLS
- 4- THE ROLE OF NUCLEUS IN CELL SURVIVAL
- 5- THE KILLING SYSTEM IN EUKARYOTIC CELL
- 6- CLASSIFICATION OF ALL LIVING ORGANISMS AND SHOWING PHYLOGENETIC TREE IS A DIAGRAM THAT REPRESENTS EVOLUTIONARY RELATIONSHIPS AMONG ORGANISMS

Topic No. 2 MOLECULAR BIOLOGY:

Includes the following research points.

- 1- FUNCTIONS AND CHEMICAL STRUCTURE OF DNA
- 2- DNA REPLICATION
- 3- TYPES, FUNCTIONS AND CHEMICAL STRUCTURE OF RNA
- 4- PROTEIN SYNTHESIS
- 5- PROTEIN SYNTHESIS INHIBITING ANTIBACTERIAL

Topic No. 3 MICROBIOLOGY

Includes the following research points.

- 1- LIVING AND NON LIVING CHARACTERISTICS OF VIRUSES
- 2- VIROIDS AND PRIONS
- 3- CLASSIFICATION OF VIRUS
- 4- BACTERIOPHAGES
- 5- CORONAVIRUS
- 6- HEPATITIS VIRUSES
- 7- AIDS VIRUS
- 8- VIRUSES AND CANCER
- 9- STREPTOMYCES

- 10- STREPTOCOCCUS
- 11- STAPHYLOCOCCUS
- 12- ACTINOMYCETES
- 13- GRAM-NEGATIVE CELL WALL
- 14- GRAM-POSITIVE CELL WALL
- 15- BACTERIAL CAPSULE
- 16- MODES OF LIVING OF BACTERIA
- 17-BACTERIA ENDOSPORES
- b) Notes: please, your research must contain the following elements:
 - TITLE, INTRODUCTION, SUBJECT, REFERENCES

GOOD LUCK,

Examiner(s)
Prof Dr. Mohamed Osman
Prof Dr Khalid Mohamed

Head of Departement / Program Coordinator