

END TERM THEORY EXAMINATIONS; MAY-2019

Program:	DOTT	Year:	1st Year
Course/Subject:	Microbiology	Duration	03:00 Hrs.
Course/Subject Code:	05080105	Maximum Marks:	80
Roll No.:		Batch	2015

Instructions:-

1. Write your Roll No. on the Question paper.
2. Candidate should ensure that they have been provided correct question paper. Complaint(s) in this regard, if any, should be made within 15 minutes of the commencement of the exam. No complaint(s) will be entertained thereafter.
3. Attempt all questions. Parts of a question should be attempted in sequential order. Marks are indicated against each question.
4. Illustrate your answer with diagram wherever required.

Q.1 Answer all the following Questions: -

(10x2=20)

- a) Name different reagents used in Gram staining.
- b) Give one example each of Citrate positive and Citrate negative bacteria.
- c) Define Sterilization and Disinfection.
- d) Write temperature and holding time of Hot Air oven.
- e) Define Immunity.
- f) Define Transport media.
- g) Define Generation time of bacteria with examples.
- h) Define Antibody.
- i) Define Pasteurization.
- j) Give one example of Gram positive bacteria and one example of Gram negative bacteria.

Q.2 Answer Any Eight of the following Questions: -

(8x5=40)

- a) Write a short note on Laminar Flow Hood.
- b) Write down the Principle and procedure of AFB staining.
- c) Write a short note on Widal.
- d) Briefly explain the Principle of Autoclave along with its uses and precautions taken during the procedure of Autoclaving.
- e) Write a short note on Bacterial cell wall.
- f) Briefly explain Bacterial Growth Curve with diagram.
- g) Describe in detail about structure of various types of antibodies.
- h) Describe Streak culture with diagram.
- i) Write a short note on Aerobic Bacterial Culture Techniques.
- j) Write down the principle and procedure of Gram staining.

Q.3 Answer Any Two of the following Questions: -

(2x10=20)

- a) Describe methods of antimicrobial susceptibility testing.
- b) Describe laboratory diagnosis of Staphylococcus infections.
- c) Classify culture media based on functional use or application.

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Program:	DOTT	Year:	1st year
Course/Subject:	Microbiology	Duration	03:00 Hrs.
Course/Subject Code:	05080105	Maximum Marks:	80
Roll No.:		Batch	2016

Instructions:-

1. Write your Roll No. on the Question paper.
2. Candidate should ensure that they have been provided correct question paper. Complaint(s) in this regard, if any, should be made within 15 minutes of the commencement of the exam. No complaint(s) will be entertained thereafter.
3. Attempt all questions. Parts of a question should be attempted in sequential order. Marks are indicated against each question.
4. Illustrate your answer with diagram wherever required.

Q.1 Answer all the following Questions: -

(10x2=20)

- a) Give two examples of common Health Care Associated Infections.
- b) Explain the Principle of MR test.
- c) Give two examples of common diseases caused by bacteria.
- d) Define Pasteurization.
- e) Give two examples of gram positive bacteria.
- f) Define Selective media.
- g) Enumerate physical methods of sterilization and disinfection.
- h) Give one example each of Oxidase positive and Oxidase negative bacteria.
- i) Give two examples of Transport Media.
- j) Define Sterilization and Disinfection.

Q.2 Answer Any Eight of the following Questions: -

(8x5=40)

- a) Write down the Principle and procedure of Gram staining.
- b) Write a short note on Central sterile supplies department.
- c) Explain Albert staining.
- d) Write a short note on ELISA.
- e) Write a short note on Hot air oven.
- f) Briefly explain the Bacterial growth curve.
- g) Define and classify Agglutination reactions.
- h) Short note on sterilization by dry heat.
- i) Write down the Principle and procedure of AFB staining.
- j) Different between Gram positive and Gram negative bacterial cell wall.

Q.3 Answer Any Two of the following Questions: -

(2x10=20)

- a) Briefly explain sources and reservoirs of Health care associated infections along with their mode of transmission.
- b) Classify culture media on the basis of functional use and application.
- c) Briefly explain Biomedical Waste Management.

END TERM THEORY EXAMINATIONS; MAY-2019

Program:	DOTT	Year:	1st Year
Course/Subject:	Introductory Biology	Duration	03:00 Hrs.
Course/Subject Code:	05080106	Maximum Marks:	80
Roll No.:		Batch	2016

Instructions:-

1. Write your Roll No. on the Question paper.
2. Candidate should ensure that they have been provided correct question paper. Complaint(s) in this regard, if any, should be made within 15 minutes of the commencement of the exam. No complaint(s) will be entertained thereafter.
3. Attempt all questions. Parts of a question should be attempted in sequential order. Marks are indicated against each question.
4. Illustrate your answer with diagram wherever required.

Q.1 Enumerate:

(10x2=20)

- a) Binomial nomenclature.
- b) Heredity.
- c) lysosomes.
- d) cell wall.
- e) mitochondria.
- f) virus.
- g) evolution.
- h) Biology.
- i) Proton.
- j) Gene.

Q.2 Answer Any Eight of the following Questions: -

(8x5=40)

- a) Explain transcription in general.
- b) What are nucleic acids?
- c) What are ribosomes.
- d) Explain a cell and cell theory.
- e) Explain mutation and its types.
- f) Explain a bacterial cell.
- g) Properties and function of enzymes.
- h) Endoplasmic reticulum.
- i) DNA replication.
- j) Ionic and covalent bonds.

Q.3 Answer Any Two of the following Questions:-

(2x10=20)

- a) Explain prokaryotic cell with diagram.
- b) Role of biology in disease.
- c) Explain concept of heredity.
