Paper Code - 3027

B.Sc. Semester-I (Old Course) (Microbiology)

July - Sept -2021

Fundamentals of Microbiology (Theory)

કુલ સમય :– ૬૦ મીનીટ કુલ પ્રશ્નો : ૫૦ વિદ્યાર્થીએ ટીક કરવાના પ્રશ્નો : ૩૫

નોંધ : વિદ્યાર્થીએ માત્ર ૩૫ પ્રશ્નો જ ટીક કરવાના રહેશે. જો વધારે ટીક કરેલ હશે તો પ્રથમ ૩૫ પ્રશ્નો જ ગણતરીમાં લેવામાં આવશે.

Q:1 _____ dye can inhibit the growth of Gram Positive Bacteria at great dilution?
(A) Safranine (B) Methyl Red (C) Phenol Red (D) Crystal Violet

Q:2 _____ are prepared either from attenuated or heat-killed microorganisms to increase immunity
(A) Antibiotics (B) Hormones (C) Vaccines (D) Chemotherapeutic Agents

Q:3 _____ is Selective as well as Differential Media
(A) Blood agar (B) EMB agar (C) Rose Bengal agar (D) Natural agar

Q:4 _____is used to produce clean air in hospital, operation theater & Pharmaceutical areas
(A) Inspissator (B) Laminar Air Flow (C) Autoclave (D) Hot Air Oven

Q:5 _____ is used for preservation of Zoological specimen in packed Glass cylinder
(A) Alcohols (B) Chlorine (C) Formaldehydes (D) Ethylene Oxide

Q:6 _____ is known as freeze-drying
(A) Storage at Liquid Nitrogen temp. (B) Deep freezing (C) Lyophilization (D) Refrigerator

Q:7 _____ do not have true Nucleus.
(A) Fungi (B) Bacteria (C) Protozoa (D) Algae

Q:8 _____ is required to study the structure of Corona virus
(A) Simple Microscope (B) Compound Microscope (C) Fluorescent Microscopy (D) Electron Microscope

Q:9 'Oxygen is important for the life of animals' was recognized by…..
(A) Needham (B) Spallanzani (C) Lavoisier (D) Pristly

Q:10 What is the capacity of oil immerging objective in a Microscope?
(A) 10 X (B) 100 X (C) 1,000 X (D) 1 0,000 X

Q:11 A slide passes through flame after making smear on it. It is mainly intended to ____ the smear
(A) Stain (B) Fix (C) Dry (D) Kill

Q:12 Acid fast Staining is a type of_____
(A) Simple Staining (B) Differential Staining (C) Structural Staining (D) Special Staining

Q:13 An Antimicrobial agent that does not kill bacteria, but prevents its growth is known as…..
(A) Bactericidal (B) Bacteriostatic (C) Fungicide (D) Insecticide

Q:14 Dmitri Iwanovsky discovered _____responsible for causing a disease in tobacco plants.
(A) Herpes Virus (B) Rabies Virus (C) TMV (D) FMDV

Q:15 Dorner's Method used to stain _____
(A) Cell wall (B) Spore (C) Capsule (D) Nucleus

Q:16 In absence of oxygen, _____dye become colorless and get color in presence of oxygen
(A) Malachite Greem (B) Methylene Blue (C) Crystal Violet (D) Safranine

Q:17 In Microscopy, _____ is used to control the amount of light that reaches specimen.
(A) Iris Diaphragm (B) Eye Piece (C) Condenser (D) Objective Lenses

Q:18 Louise Pasture disproved _____by making 'Goose neck flask'
(A) Biogenesis (B) Spontaneous Generation (C) Evolution (D) Mutation

Q:19 Microbial Type Culture Collection (MTCC) is situated in…..
(A) Pune (B) Mumbai (C) Chandigarh (D) New Delhi

Q:20 Micromanipulator can _____
(A) Isolate single cell from mixture (B) kill bacteria (C) Cause mutation in DNA (D) see viruses

Q:21 On Mac Conkey's agar, prevent the growth of Gram positive bacteria due to _____
(A) Lactose (B) Bile salt (C) Neutral red dye (D) Peptone

Q:22 Richard Petri invented _____ for Microbiology Lab.
(A) Potato slices as medium (B) Agar-agar powder as solidifying agent
(C) Petri plate for Cultivation of Microorganism (D) Staining method

Q:23 The ability of a Microscope to produce sharper images is due to its better……
(A) Absorption (B) Magnification (C) Resolution (D) Light Intensity

Q:24 The entry of unwanted microorganism in pure culture is Known as…..
(A) Isolation (B) Sterilization (C) Cultivation (D) Contamination

Q:25 Cinchona bark tree was used by Americans for treatment of _____
(A) Syphilis (B) Malaria (C) Dengue (D) Chicken gunia
Q:26 The Macroscopically visible growth of Microorganisms on Solid Media is known as……
(A) Zone (B) Colony (C) Turbidity (D) Plaque
Q:27 The Maggot Experiment was performed by…..
(A) Francisco Redi (B) Louis Joblot (C) Aristotle (D) Robert Hooke
Q:28 The microorganism present in single colony that derive from single cells are called _____
(A) Pure Culture (B) Axenic Culture (C) Mixed Culture (D) Clone
Q:29 The Microorganism that causes disease or Infection is known as…..
(A) Zymogen (B) Antigen (C) Pathogen (D) Pyrogen
Q:30 The Passage of Light through an object or lens is called as…..
(A) Absorption (B) Reflection (C) Transmittance (D) Fluorescence
Q:31 The phenol was used as disinfectant for the first time by
(A) Joseph Meister (B) Joseph Lister (C) Louis Pasteur (D) Robert Koch
Q:32 The Process of growing microorganisms under laboratory conditions is known as…..
(A) Sterilization (B) Cultivation (C) Contamination (D) Isolation
Q:33 The Roll Tube Method is used to cultivate…..
(A) Psychrophiles (B) Anaerobes (C) Acidophiles (D) Nitrogen Fixing bacteria
Q:34 The science of classifying the organisms is known as _____
(A) Taxonomy (B) Ecology (C) Classification (D) Nomenclature
Q:35 The Term Vaccine was coined from the word 'Vacca', meaning…..
(A) Cow (B) Monkey (C) Hen (D) Rabbit
Q:36 To Disprove the theory of Spontaneous Generation, _____passed the air through cotton wool.
(A) Franz Schulz (B) Theodor Schwann (C) Schroeder and Dusch (D) Pouchet
Q:37 Typhoid fever is caused by…..
(A) *Neisseria gonorrhoeae* (B) *Salmonella typhi* (C) *Escherichia coli* (D) *Proteus vulgaris*
Q:38 When the Object appears colored against a white Background, this Microscopic Method is Known as…..
(A) Bright Field (B) Dark Field (C) Phase Contrast (D) Fluorescence
Q:39 Which chemical is known as 'Magic Bullet 606'?
(A) Penicillin (B) Mercury (C) Salvarson (D) Sulfonamides
Q:40 Which of the following constituent is not present in Nutrient Broth
(A) Peptone (B) Meat Extract (C) NaCl (D) Agar-Agar Powder
Q:41 Which of the following decolorize the cells in Grams Staining Process?
(A) Crystal Violet (B) Gram's Iodine (C) Ethanol (D) Safranine
Q:42 Which of the following is known as the 'Golden Era of Microbiology'?
(A) 1825-1853 (B) 1860-1910 (C) 1917-1983 (D) 2000-2016
Q:43 Which of the following technique increase the no of microorganisms in sample?
(A) Lyophilization (B) Storage under Liquid Nitrogen (C) Deep Freezing (D) Enrichment Technique
Q:44 Which of the Following is not an example of Cryoprotective Agent?
(A) Milk skim (B) DMSO (C) Glycerol (D) Liquid Nitrogen
Q:45 Which of the Following is a Fluorescent Dye?
(A) Acridine Orange (B) Safranine (C) Crystal Violet (D) Bromoyhymol blue
Q:46 Which of the following techniques removes microorganism instead of killing them for the purpose of sterilization?
(A) Autoclaving (B) Hot Air Oven drying (C) UV radiation (D) Membrane Filtration
Q:47 Who proposed the 'Germ Theory of Disease'?
(A) James Watson (B) Robert Koch (C) Selman Waksmann (D) Paul Ehrlich
Q:48 Who proposed the Germ theory of Fermentation
(A) Bruce Ames (B) John Tyndall (C) Robert Koch (D) Louis Pasteur
Q:49 Who suggested the use of Agar-Agar Powder as a Solidifying Agent?
(A) Robert Koch (B) Richard Petri (C) Fannie Hesse (D) Anton Vaan LeeuWenHoek
Q:50 Who was the first to isolate Nitrogen fixing bacteria from soil & Root nodules
(A) M. Beijirinck (B) Anton Vaan Leeuwenhoek (C) Robert Koch (D) Selman Waksmann