Subject Code : 623 Section Code : 1->Microbiology Difficulty: 1

Subject Code	Q Id	Questions	Answer Key
623	3751	Which of the following is not true for a prokaryote (A) Well developed nucleus is absent (B) Ribosomes are of 80S type (C) Mitochondria are absent (D) Transcription and translation are coupled	(B)
623	3752	The five kingdom classification of living organisms was proposed by (A) Carl Woese (B) Louis Pasteur (C) Whittaker (D) None of the above	(C)
623	3753	A bacterium used as bioinsecticide (A) *Bacillus subtilis* (B) *Bacillus thuringiensis* (C) *Lactobacillus lactis* (D) *Pseudomonas fluorescens*	(B)
623	3754	Causal agent of mad cow disease (A) Algae (B) Virus (C) Mycoplasma (D) Prions	(D)
623	3755	The major product of glycolysis under aerobic conditions is (A) pyruvate (B) lactate (C) acetate (D) citrate	(A)
623	3756	Gram staining differentiates bacteria based on (A) nucleic acid content (B) cell wall composition (C) fluorescent pigment (D) fatty acid profile	(B)
623	3757	Lophotrichous flagella means (A) Single flagellum at one end (B) Tuft of flagella at one end (C) Flagella all over the surface	(B)

		(D) Tuft of flagella at both ends	
623	3758	The vitamin C deficiency symptom is known as (A) Eczema (B) Mycoses (C) Scurvy (D) Kwashiorkor	(C)
623	3759	Red tides are caused by (A) Phaeophyceae (B) Chrysophyta (C) Cyanophyceae (D) Dinoflagellates	(D)
623	3760	Which among the following bacteria can fix atmospheric N (A) *Acetobacter aceti* (B) *Serratia marcescens* (C) *Azotobacter vinelandii* (D) *Staphylococcus aureus*	(C)
623	3761	The red pigment produced by Serratia marcescens (A) Phycocyanin (B) Xanthomonadin (C) Zeaxanthin (D) Prodigiosin	(D)
623	3762	Causal agent of black plague (A) *Yersinia pestis* (B) *Clostridium botulinum* (C) *Staphylococcus aureus* (D) *Vibrio cholerae*	(A)
623	3763	Which of the following compounds are involved in quorum sensing (A) Acyl homoserine lactones (B) 6 phospho gluconolactone (C) Gamma amino butyric acid (D) None of the above	(A)
623	3764	Which among these is a bacteriocin (A) Nisin (B) Streptomycin (C) Penicillin (D) Kanamycin	(A)
623	3765	What is the purpose of magnetosomes in bacteria?	(D)

		(A) Movement towards light (B) Movement towards food (C) Movement towards oxygen gradient (D) Movement towards magnetic poles	
623	3766	Arbuscular mycorrhizal fungi belong to the division (A) Zygomycota (B) Basidiomycota (C) Chytridiomycota (D) Glomeromycota	(D)
623	3767	Which of the following is False for Propionibacterium shermanii? (A) Produces holes and distinct flavor in swiss cheese (B) Slow growing organism (C) Gram negative microorganism (D) Have unusual transcarboxylase enzymes to produce propionic acid	(C)
623	3768	Ropiness of milk is caused by (A) *Pseudomonas aeruginosa* (B) *A. Alcaligenes viscolactis* (C) *Lactobacillus lactis* (D) *Leuconostoc mesenteroides*	(B)
623	3769	Which among the following is an endospore forming bacteria (A) *Pseudomonas* (B) *Staphylococcus* (C) *Clostridium* (D) *Enterococcus*	(C)
623	3770	Temperature and pressure applied in autoclave for sterilization (A) 1210 C, 15 psi (B) 1010 C, 25 psi (C) 1000 C, 20 psi (D) 1300 C, 10 psi	(A)
623	3771	The fungus used for producing blue cheese (A) *Penicillium roqueforti* (B) *Aspergillus niger* (C) *Penicillium notatum* (D) *Neurospora crassa*	(A)
623	3772	Major purpose of the application of arbuscular mycorrhizal fungi in agriculture (A) Nitrogen fixing (B) Phosphate solubilization	(C)

		(C) Phosphate mobilization (D) Disease resistance	
623	3773	Fluorescent pigment produced by Pseudomonas fluorescens (A) Pyoverdine (B) ��� Violacein (C) Prodigiosin (D) Astaxanthin	(A)
623	3774	Causative agent of whooping cough (A) *Staphylococcus aureus* (B) *Klebsiella pneumoniae* (C) *Bordetella pertussis* (D) *Vibrio cholerae*	(C)
623	3775	Genetic recombination in bacteria, that involves a virus (A) Transformation (B) Sexduction (C) Key Check (D) Transduction	(D)
623	3776	A microbe used for single cell protein production (A) *Spirulina* (B) Euglena (C) Penicillium (D) Colletotrichum	(A)
623	3777	Compound responsible for the distinctive “earthy” odour of soil is (A) Phytoalexins (B) Root exudates (C) Cellulose (D) Geosmin	(D)
623	3778	A photoautotrophic microorganism (A) *Nitrosomonas* (B) *E. coli* (C) *Pseudomonas* (D) *Chlorobium*	(D)
623	3779	In Gram staining, the mordant used is (A) Ethanol (B) ﷺ Iodine (C) Safranine (D) Water	(B)

623	3780	The most abundant protein on earth is (A) Rubisco (B) Cellulase (C) Chitinase (D) Cytochrome oxidase	(A)
623	3781	A bacterium grouped under Phylum Firmicutes (A) *Azospirillum* (B) *Vibrio* (C) *Lactobacillus* (D) *Acetobacter*	(C)
623	3782	Name of a food preservative of microbial origin (A) Sulfur dioxide (B) Sodium sorbate (C) Nisin (D) Sodium nitrite	(C)
623	3783	Lyophilization refers to (A) Freeze drying (B) Storage in liquid nitrogen (C) Overlaying with mineral oil (D) Storage under refrigeration	(A)
623	3784	Olives are bitter to taste due to (A) denatonium (B) isohumulones (C) momordicines (D) oleuropein	(D)
623	3785	Metallic sheen on EMB agar is characteristic of (A) *E. coli* (B) *Streptomyces* (C) *Pseudomonas* (D) *Aquaspirillum*	(A)
623	3786	Which of the following is not true for pasteurization (A) Heating milk to kill harmful and pathogenic microorganisms (B) Pasteurized milk can be stored under refrigerated conditions (C) Heating to kill all microbes present in milk (D) First demonstrated by Louis Pasteur and Claude Bernard	(C)
623	3787	Which bacterium is known as Conan the bacterium? (A) Agrobacterium tumefaciens (B) Thermus aquaticus	(D)

		(C) Agrobacterium radiobacter (D) Deinococcus radiodurans	
623	3788	A scientist who supported theory of spontaneous generation (A) Francesco Redi (B) John Needham (C) Lazzaro Spallanzani (D) Louis Pasteur	(B)
623	3789	Example of a retrovirus (A) HIV (B) TMV (C) CaMV (D) CMV	(A)
623	3790	Which of the following is an Archaebacterium? (A) Clostridium botulinum (B) Streptomyces griseus (C) Mycobacterium leprae (D) Methanobacterium thermoautotrophicum	(D)
623	3791	Compound that imparts resistance to desiccation in endospore (A) Peptidoglycan (B) Crystal protein (C) Calcium dipicolinate (D) Metalloprotein	(C)
623	3792	A poisonous mushroom (A) *Volvoriella* (B) Pleurotus (C) Amanita (D) Agaricus	(C)
623	3793	Acid fast staining is used for the diagnosis of which disease (A) Diphtheria (B) Tuberculosis (C) AIDS (D) Filariasis	(B)
623	3794	In ELISA technique, the antibodies are labelled by (A) Acridine orange (B) Alkaline phosphatase (C) Ethidium bromide (D) Bromothymol blue	(B)

623	3795	A medium suitable for isolation of actinomycetes from soil (A) Potato dextrose agar (B) Kenknight and Munaier's medium (C) Yeast extract mannitol agar (D) Nutrient agar	(B)
623	3796	In a laminar air flow cabinet, sterile environment is obtained with the help of (A) HEPA filter (B) Mercuric chloride (C) Ethanol (D) Sodium hypochlorite	(A)
623	3797	Wall-less microbes (A) Actinomycetes (B) Mycoplasma (C) Spirulina (D) Archea	(B)
623	3798	A plant pathogenic microbe (A) *Yersinia pestis* (B) *Bacillus anthracis* (C) *Xanthomonas campestris* (D) *Propionibacterium avidum*	(C)
623	3799	Natural genetic engineer (A) *Agrobacterium tumefaciens* (B) *Escherichia coli* (C) *Rhizobium meliloti* (D) *Lactococcus lactis*	(A)
623	3800	A restriction enzyme (A) *Eco*RI (B) Dehydrogenase (C) Amylase (D) Lipase	(A)
623	3801	Specialized nitrogen fixing cells in cyanobacteria (A) Endospore (B) Akinete (C) Heterocyst (D) None of the above	(C)
623	3802	State Which of the following is False for "Role of 95% ethanol in Gram Staining" (A) Removal of crystal violet-iodine complex (B) Solubilization of peptidoglycan	(B)

		(C) As decolorizing agent (D) Not used as a mordant	
623	3803	The temperature and time for ultra pasteurization are (A) 720C for 30 minutes (B) 1380C for 2 seconds (C) 500C for 40 minutes (D) 1000C for 10 minutes	(B)
623	3804	Causative agent of Q-fever is (A) *Salmonella typhi* (B) *Klebsiella pneumoniae* (C) *Escherichia coli* (D) *Coxiella burnetii*	(D)
623	3805	Size of pBR322 cloning vector (A) 2564 bp (B) 3500 bp (C) 4363 bp (D) 1565 bp	(C)
623	3806	Who proposed Gaia Hypothesis? (A) James Lovelock (B) Ernst Haeckl (C) Arthur Tansley (D) Alexander von Humboldt	(A)
623	3807	Who discovered the usage of carbolic acid as an antiseptic agent? (A) Louis Pasteur (B) Joseph Lister (C) Robert Koch (D) Edward Jenner	(B)
623	3808	The three domains of life are (A) Archaea, Eubacteria & Eukarya (B) Planta, Animalia & Fungi (C) A. Planta, Animalia & Protista (D) A. Archaea, Protista & Eukarya	(A)
623	3809	The site present on the immunoglobulin (Ig) at which the antigen binds (A) Epitope (B) Paratope (C) B cell (D) H chain	(B)

623	3810	Which is the most predominant immunoglobulin present in the body? (A) IgG (B) IgA (C) IgE (D) IgD	(A)
623	3811	Organisms that prefer normal temperature are called as, (A) Psychrophiles (B) Thermophiles (C) Alkalophiles (D) Mesophiles	(D)
623	3812	Vogues-Proskauer test depends on the production of, (A) Acetyl methyl carbinol from pyruvate (B) Indole from tryptophan (C) Acid during fermentation of glucose (D) Carbon dioxide evolution during respiration	(A)
623	3813	Who discovered the transforming principle in bacteria (A) Jacob Monad (B) Frederick Griffith (C) Matthias Schleiden (D) Theodor Schwann	(B)
623	3814	Competence in bacteria can be induced with the help of (A) Ethidium bromide (B) Sucrose (C) Trizol reagent (D) Calcium chloride	(D)
623	3815	Which among the following is called as ‘jumping gene’ (A) Plasmid (B) Vector (C) Transposon (D) R factor	(C)
623	3816	A disease that spreads across the world in a short period of time affecting a very large number of people is termed as, (A) Endemic (B) Pandemic (C) Epidemic (D) Sporadic	(B)
623	3817	Who coined the term ‘Bacteriophage’ (A) d’Herelle	(A)

		(B) Twort (C) Adolf Mayer (D) Helmut Ruska	
623	3818	The function of plasma membrane in a cell (A) Regulates movement of molecules in and out of the cell (B) Involved in protein synthesis (C) Defines the shape of the cell (D) All of the above	(A)
623	3819	What is the function of ribosomes? (A) Energy production (B) Protein synthesis (C) Photosynthesis (D) DNA replication	(B)
623	3820	Plasmids are (A) Self-replicating segment of double stranded DNA (B) A bacterial chromosome (C) Self-replicating segment of single stranded RNA (D) Genetic element that can move from one location to another	(A)
623	3821	Movement of bacteria toward chemical attractants and away from repellents is called (A) Tumbling (B) Chemotaxis (C) Gliding motility. (D) All of the above	(B)
623	3822	Poly-beta-hydroxybutyrate (PHB) inclusion bodies (A) Store carbon for energy and biosynthesis (B) Turn reddish brown when stained with iodine (C) Composed of polymers of glucose (D) Protect bacteria from excessive drying	(A)
623	3823	Which of the following is not true about capsules and slime layers? (A) They consist of secreted material lying outside of the bacterial cell wall (B) They can prevent desiccation of bacteria cells (C) They help bacteria resist phagocytosis by macrophages (D) They are required for bacteria to grow normally in culture	(D)
623	3824	What is the purpose of bacterial endospores? (A) Allow the bacterium to survive extended periods of heat or dryness (B) Allow the bacterium to survive in the absence of oxygen (C) Allow the bacterium to make hundreds of "seeds" to spread on the wind (D) Help the bacterium to differentiate into faster growing stages of bacteria	(A)

623	3825	Which of the following techniques is used for RNA transfer from gel? (A) Southern blotting (B) Northern blotting (C) Western blotting (D) PAGE	(B)
623	3826	Antibiotic that inhibits protein synthesis in bacteria (A) Penicillin (B) Nystatin (C) Streptomycin (D) Bacitracin	(C)
623	3827	A blue green algal genus (A) *Nostoc* (B) *Gelidium* (C) *Chlorella* (D) *Laminaria*	(A)
623	3828	The fungus used in the industrial production of citric acid (A) *Rhizopus oryzae* (B) *Fusarium moniliforme* (C) *Rhizopus nigricans* (D) *Aspergillus niger*	(D)
623	3829	A virus with single stranded RNA as genetic material (A) Cauliflower mosaic virus (B) Reovirus (C) M13 (D) Rous sarcoma virus	(D)
623	3830	Flask shaped fruiting body found in some fungi (A) Perithecium (B) Apothecium (C) Cleistothecium (D) Gymnothecium	(A)
623	3831	A method of sterilization of heat labile molecules (A) Chemical sterilization (B) Autoclaving (C) Membrane filtration (D) Fumigation	(C)
623	3832	Who discovered phagocytosis? (A) Ellie Metchnikoff	(A)

		(B) Anton van Leuwenhoek (C) Robert Hooke (D) Robert Koch	
623	3833	The swan neck flask experiment finally disproved which theory? (A) Endosymbiotic theory (B) Cell theory (C) Theory of spontaneous generation (D) Germ theory of diseases	(C)
623	3834	An interaction between two organisms in which one is harmed and the other neither benefitted, nor harmed (A) Symbiosis (B) Ammensalism (C) Commensalism (D) Parasitism	(B)
623	3835	Antibodies are produced by (A) B lymphocytes (B) T lymphocytes (C) T helper cells (D) T memory cells	(A)
623	3836	An autoimmune disease (A) Down syndrome (B) Influenza (C) Jaundice (D) Systemic lupus erythematosus	(D)
623	3837	Embryonated egg can be used for cultivation of (A) Mycoplasma (B) Virus (C) Spiroplasma (D) Phytoplasma	(B)
623	3838	Bases present in RNA (A) Adenine, Guanine, Thymine and Uracil (B) Adenine, Guanine, Cytosine and Uracil (C) Adenine, Cytosine, Thymine and Uracil (D) Guanine, Cytosine, Thymine and Uracil	(B)
623	3839	Concentration of agarose for gel electrophoresis of DNA (A) 0.1 to 1% (B) 2.5 to 5% (C) 0.8 to 2% (D) 3 to 4 %	(C)

623	3840	Which among the following is a palindromic sequence in ds DNA? (A) GAATTC (B) CATTAC (C) CGGGGC (D) GATATA	(A)
623	3841	Which among the following is not a stop codon? (A) UAA (B) UAG (C) AUG (D) UGA	(C)
623	3842	The following scientist was responsible for deciphering the genetic code (A) Kary Mullis (B) Kornberg (C) James Watson (D) Marshall Nirenberg	(D)
623	3843	Guard cells in plants are found associated with (A) Stomata (B) Cambium (C) Cortex (D) Chloroplasts	(A)
623	3844	Photosynthates prepared in leaves are translocated to all plant parts through (A) Xylem (B) Phloem (C) Endodermis (D) Collenchyma	(B)
623	3845	The metal ion present in chlorophyll (A) Mg (B) Ni (C) Pb (D) Zn	(A)
623	3846	Development of fruits without fertilization in plants (A) Parthenocarpy (B) Polygamy (C) Parthenogenesis (D) Apogamy	(A)
623	3847	Which among the following is a berry? (A) Mango	(C)

		(B) Lemon (C) Tomato (D) Apple	
623	3848	Botanical name of pineapple (A) *Vitis vinifera* (B) *Mangifera indica* (C) *Ananas comosus* (D) *Malus pumila*	(C)
623	3849	Economic part of saffron (A) Dried flower (B) Dried anther (C) Dried leaf (D) Dried stigma	(D)
623	3850	Colouring pigment in tomato (A) Carotene (B) Betalain (C) Lycopene (D) Anthocyanin	(C)
623	3851	Which among the following is a C4 plant (A) Rice (B) Barley (C) Soybean (D) Sugarcane	(D)
623	3852	Plant hormone abundant in meristematic tissue (A) Auxin (B) Gibberellin (C) Cytokinin (D) Abscisic acid	(A)
623	3853	Which form of nitrogenous waste requires less amount of water for its excretion (A) Ammonia (B) Uric acid (C) Urea (D) Nitrate	(B)
623	3854	Excretory organ in cockroach (A) Oesophagus (B) Crop (C) Gizzard (D) Malpighian tubules	(D)

623	3855	Platelets in blood are called (A) Lymphocytes (B) Thrombocytes (C) Erythrocytes (D) Granulaocytes	(B)
623	3856	Which among the following blood groups is a universal recipient (A) AB group (B) O group (C) B group (D) A group	(A)
623	3857	Binomial nomenclature was introduced by (A) R H Whittaker (B) George Washington Carver (C) Carl Linnaeus (D) Carl Woese	(C)
623	3858	The hierarchy of classification is in the order, (A) Kingdom – Phylum – Class – Order – Family – Genus - Species (B) Kingdom – Class – Phylum – Order – Family – Genu - Species (C) Kingdom–Phylum – Order – Class – Family – Genus - Species (D) Kingdom – Class – Order – Phylum – Family – Genus – Species	(A)
623	3859	The vector for malaria is (A) Male culex (B) Female culex (C) Female Aedes (D) Female Anopheles	(D)
623	3860	Which among the following is not the characteristic of phylum Annelida (A) Does not have a segmented body (B) Possess longitudinal and circular muscles for locomotion (C) Closed type circulatory system (D) Nephridia is present	(A)
623	3861	Which among the following processes requires energy? (A) Passive transport (B) Simple diffusion (C) Active transport (D) Facilitated diffusion	(C)
623	3862	The junction between two neurons are called as (A) Dendrite	(D)

		(B) Axon (C) Nodes of Ranvier (D) Synapse	
623	3863	Which of the following is not true for the statement - **Biological oxygen demand of water indicates** (A) Amount of putrescible organic matter (B) The degree of pollution (C) Amount of oxygen consumed by living organisms while utilising the organic matter present (D) Good quality water, when BOD is high	(D)
623	3864	Biogas is composed of ……% methane (A) 50-65 (B) 65-70 (C) 45-50 (D) 90-95	(A)
623	3865	Which among the following is not a greenhouse gas? (A) Water vapour (B) Carbon dioxide (C) Methane (D) None of the above	(D)
623	3866	One of the following is not true about Eutrophication (A) is caused by run off of fertilizers and agro-chemicals into lakes (B) induces algal blooms in water bodies (C) results in oxygen depletion of water body (D) causes hypotropication	(D)
623	3867	Which organism is manipulated for alcohol production? (A) *Zymomonas mobilis* (B) *Lactobacillus lactis* (C) *Aspergillus niger* (D) *Aspergillus awamori*	(A)
623	3868	Which among the divisions in bacteria as per Bergey's classification are wall-less forms? (A) Gracilicutes (B) Tenericutes (C) Mendosicutes (D) Firmicutes	(B)
623	3869	A Svedberg unit is (A) charge to mass ratio of DNA separation (B) volume to mass ratio (C) a unit of time used for expressing sedimentation coefficients (D) charge to density ratio	(C)

623	3870	Who discovered bacterial conjugation? (A) Lederberg and Tatum (B) Hershey and Chase (C) Jacob and Monad (D) Schaudinn and Hoffmann	(A)
623	3871	Who proposed the operon model for gene regulation (A) Watson and Crick (B) Jacob and Monod (C) Jacob and Wollman (D) Jurne and Burnet	(B)
623	3872	Resolution of a microscope lens is defined as, (A) Ability of the lens to magnify a single cell (B) The degree of intensity of light that falls on the specimen (C) Ability of the lens to distinguish between two close objects (D) None of the above	(C)
623	3873	Which among the following is a basic dye? (A) Methylene blue (B) Eosin (C) Rose Bengal (D) Acid fuchsin	(A)
623	3874	The purpose of doing negative staining is, (A) To visualize the flagella of the bacteria (B) To visualize the endospores of the bacteria (C) To find the presence of diffuse capsules surrounding the bacterial cell (D) To identify the presence of PHB granules	(C)
623	3875	Which method uses the sole carbon utilization pattern to identify microorganisms (A) ELISA (B) FAME analysis (C) BIOLOG (D) DGGE	(C)
623	3876	Which among the following is true for a eukaryotic cell? (A) Absence of endoplasmic reticulum (B) Presence of murein in cell wall (C) Presence of membrane bound organelles (D) Absence of histone associated with DNA	(C)
623	3877	The carbon source for a photolithoautotroph is/are, (A) Organic carbon	(B)

		(B) Carbon dioxide (C) Methane (D) All of the above	
623	3878	Which among the following is true for group translocation? (A) Transport molecules without modification and expenditure of energy (B) Transport molecules using energy without modification (C) Transport of molecules after chemical modification (D) Energy dependent transport of chemically modified molecule	(D)
623	3879	Which organism requires a special nutritional requirement for growth and development? (A) Auxotroph (B) Prototroph (C) Mixotroph (D) Lithotroph	(A)
623	3880	The population of bacterial cells is considered to be most uniform (chemically and physiologically) under which phase of development (A) Lag phase (B) Exponential phase (C) Stationary phase (D) Death phase	(B)
623	3881	An organism that do not require oxygen for its growth, but do grows better in its presence is called as, (A) Aerotolerant anaerobe (B) Obligate anaerobe (C) Facultative anaerobe (D) Microaerophile	(C)
623	3882	Thymine dimers that inhibit DNA replication is formed due to, (A) Gamma irradiation (B) Chemical mutation (C) A. X-ray irradiation (D) UV irradiation	(D)
623	3883	Which among the following statement stands true for ‘Sanitization’? (A) Microbial populations are reduced to levels that are considered safe by public health standards (B) Killing, inhibition or removal of microorganisms that can cause disease (C) Prevention of infection by microorganisms using chemical agents (D) Process by which living cells, viable spores, viruses and viroids are either destroyed or removed	(A)
623	3884	Time in minutes at a specific temperature required to kill a population of cells or spores are termed as, (A) F-value (B) D-value (C) C-value	(A)

		(D) Z-value	
623	3885	Oxidation and degradation of the substrate or energy production in the absence of an external electron acceptor is called, (A) Respiration (B) Photosynthesis (C) Glycolysis (D) Fermentation	(D)
623	3886	The process of elimination of plasmids from bacterial cells are called (A) Cloning (B) Curing (C) Conjugation (D) Transformation	(B)
623	3887	The latent form of phage genome that remains within the host bacterial genome without destroying it is called (A) Episome (B) Temperate phage (C) Prophage (D) Lambda phage	(C)
623	3888	Who introduced the eight kingdom system of classification (A) Carl Linnaeus (B) R H Whittaker (C) Cavalier-Smith (D) Carl Woese	(C)
623	3889	Which among the following is true for Gram negative bacteria (A) Has thick cell wall composed mainly of peptidoglycan (B) Teichoic acid present in cell wall (C) Some groups can form endospore (D) Cannot form endospores	(D)
623	3890	The first volume of Bergey’s Manual for Systematic Bacteriology was published in the year (A) 1990 (B) 1955 (C) 1960 (D) 1984	(D)
623	3891	Which among the following bacterial phyla possess periplasmic flagella? (A) Chlamydiae (B) Planctomycetes (C) Spirochaetes (D) Bacteroidetes	(C)

623	3892	The condition of Aflatoxicosis is caused by (A) *Aspergillus flavus* (B) *Claviceps purpurea* (C) *Rhizoctonia solani* (D) *Trichoderma viride*	(A)
623	3893	The unwinding process of DNA during the replication is promoted by the enzyme (A) Primase (B) Helicase (C) Gyrase (D) Polymerase	(B)
623	3894	The RNA polymerase binding site is also called (A) Start codon (B) Stop codon (C) Pribnow box (D) Leader sequence	(C)
623	3895	The first genetically engineered food approved for sale is (A) Golden rice (B) Bt brinjal (C) Bt maize (D) Flavr savr tomato	(D)
623	3896	Which among the following statement is not true about an ideal indicator organism (A) Present whenever the pathogens are present (B) Occur in less number than the pathogens (C) Should be resistant to disinfectants (D) Should grow rapidly on simple media	(B)
623	3897	Lac operon is induced by (A) Glucose (B) Allolactose (C) Arabinose (D) Trehalose	(B)
623	3898	Counter stain used in acid-fast staining is (A) Carbol fuschin (B) Safranin (C) Methylene blue (D) Crystal violet	(C)
623	3899	In Schaeffer-Fulton staining, malachite green is forced into the endospores using (A) Iodine (B) Ethanol	(D)

		(C) Tannic acid (D) Moist heat	
623	3900	The free living nitrogen fixer, Azotobacter was first isolated by, (A) Sergei Winogradsky (B) Martinus Beijerinck (C) Hermann Wilfarth (D) Hermann Hellriegel	(B)