

EXAMINATION MATERIAL ZUEB - 2022

BOTANY XI (PRE-MEDICAL)

SECTION "A" MULTIPLE CHOICE QUESTION (MCQ'S)

Chapter's Name	MCQs (Multiple Choice Questions)	
THE CELL	TOPIC:	SUB TOPIC
	Cell as basic unit of Life	Plasma membrane
	Cell Theory	Fluid mosaic model
	Eukaryotic Cell	Cell wall
	Cytoplasmic organelles &	Nucleus
	membrane system	Active and passive transport
	memorane system	Endoplasmic reticulum
		Mitochondria
		Golgi apparatus
		Lysosomes
		Plastid
	/ A 100	Peroxisome, Glyoxysome, Ribosomes,
	A Company of	centriole
		and vacuole
	1) Which of the following is NO	
	A. Nucleus	or un organiene.
	B. Golgi apparatus	
	C. Lysosome	
	D. <u>Chlorophyll</u>	
	D. <u>Cindiaphyn</u>	
	2) It is function of lysosome.	
	A. Protein synthesis	
	B. Processing and packaging	
	C. Intercellular Digestion	
	D. Lipid Synthesis	
		arms resembling with "J" are called:
	A. Metacentric	
	B. Sub-metacentric	
	C. Acrocentric	
	D. Telocentric	
	4) Small pores in the cell wall a	re called
	A. Stomata	
	B. Ribosomes	
	C. Lenticels	
	D. <u>Plasmodesmeta</u>	
	5) Rough Endoplasmic Reticult	ım are different from smooth endoplasmic
	reticulum due to presence of:	
	A. Ribosomes	
	B. Lysosomes	
	C. Mitochondria	
	D. Golgi apparatus	

	6) The term "Cell" was first used by:		
		A. Robert Brown 1965	
	B. Robert Brown 1865		
	C. Robert Hooke 1556		
	D. Robert Hooke 1665		
Variety Of Life	TOPIC:	SUB TOPIC:	
	Needs and Basis of Biological	Homology, biochemistry, cytology,	
	Classification	genetics	
	Concept of Hierarchy	Units of biological classification	
	Two Kingdom to Five Kingdom Systems	Classification of wheat and housefly	
	Viruses	(Discovery, Characteristics, Structure and	
	Life cycle of Bacteriophage	classification)	
	Animal Diseases	The lytic cycle	
		The lysogenic cycle	
		Poliomyelitis, Colds, AIDS, Flu and	
	7) If Viral reproductive cycle culmina	Hepatitis ates in death of host cell, then its termed as:	
	A. Lysogenic cycle	ates in death of host cen, then its termed as.	
	B. Lytic cycle		
	C. Krebs cycle		
	D. Glycolysis		
	8) One of the following viruses cause	colds in human	
	A. Poliovirus		
	B. Rhinovirus		
	C. Arbovirus		
	D. Rhabdovirus		
	0) Which one of the following is not a	a viral disaasa?	
	 9) Which one of the following is not a viral disease? A. Influenza B. Hepatitis C. AIDS 		
	D. Pneumonia		
The Kingdom	TOPIC:	SUB TOPIC:	
Prokaryotae Prokaryotae	Bacteria	(Discovery, Structure,	
(Monera)	Cyanobacteria	Nutrition, Respiration Growth and	
(Monera)	Cyanobacteria	Reproduction)	
		(Nostoc structure, nutrition, reproduction	
		and	
		importance)	
	10) When the tuft of flagella is present	at both the ends in the structure of bacterial	
	cell, then the condition is known as:		
	A. Atrichous		
	B. Lophotrichous		
	C. Peritrichous		
	D. <u>Amphitrichous</u>		
	11) Bacterial Pilli help in:		
	11) Bacterial Pilli help in: A. Locomotion		
	B. Phagocytosis		
	C. Conjugation		
	D. Exocytosis		
	12) Type of cocci having group eight are called:		
	A. Diplococcus		
	B. Streptococcus		
	C. Sarcina		
	D. Staphylococcus		

	 13) Which of the following is a bacteria A. Leishmaniosis B. <u>Tetanus</u> C. Measles D. Polio 	ıl disease?	
	14) Photosynthetic Bacteria use which of the following molecule instead of H2O? A. <u>H2S</u> B. H2SO4 C. CH4 Gas D. Atomic Hydrogen		
	15) In which of the following phase of bacterial growth, death rate is more rapid than multiplication rate? A. Stationary phase B. LAG phase C. Decline phase D. LOG phase		
The Kingdom Protista	TOPIC:	SUB TOPIC:	
(Protoctista)	Diversity among Protista (Plant-like algae, Fungi-like Protoctista)	Algae (cholera and Ulva) Slime mold and water mold	
	16) The number of chromosomes predated. A. 13 B. 26 C. 24 D. 12 17) One of the following is example of A. Algae B. Oomycota C. Protozoa D. Protoctista 18) Organisms present in fungi-like Probecause their body is made up of thread A. Mycelium B. Hyphae C. Pilli D. Flagella 19) Plant like Protoctista are: A. Algae B. Fungi C. Slime mol D. Protozoa 20) Water mold Oomycotes is a pathogo A. Fire bight of potato B. Ring rot of potato C. Late blight of potato D. Ergot of rye	f fungi like Protoctista toctista are superficially resemble with fungi like structures called:	

T	he body of fungus classification of fungi with reference to cructure, reproduction and importance)	SUB TOPIC: Nutrition in Fungai Reproduction in fungi Zygomycota Ascomycota
		Basidiomycota Deutromycota
	 22) Mycelium is a term used for: A. Mass of spores B. Mass of sporangia C. Zoospores D. Mass of hyphae 	
A	 23) Mushrooms belongs to: A. Zygomycota B. Ascomycota C. <u>Basidiomycota</u> D. Deuteromycota 	
Z	 24) Lichens show mutualistic and symbiotic associated between: A. Fungi and Algae B. Algae & Bacteria C. Bacteria and Fungus D. Bacteria and Virus 	
	 25) One of the following is a toxin procancer. A. Mycotoxin B. <u>Aflatoxin</u> C. Zearalenone 	roduced by aspergillosis which causes
	D. Vomitoxin26) Which one is not belongs to BasinA. <u>Cup-Fungi</u>	diomycota?
	B. Jelly-FungiC. PuffballsD. Shelf Fungi	not observed in this group of fungi.
	 A. Zygomycota B. Ascomycota C. Basidiomycota D. Deuteromycota 	not observed in this group of rungi.

The Kingdom Plantae	TOPIC:	SUB TOPIC:
ruc ixinguom riantae	Classification of Plants	(General characteristics; adaptations; life
		_
	Bryophytes	cycle
	Tracheophytes	and classes)
	Plant families	Major Groups of Vascular Plants
		Rhynia plant
		Life cycle of fern
		Spermopsida successful group of land
		plant
		Family Rosaceae
		Family Solanaceae
		•
		Family fabeacea
		(Only scientific names of plants of other
		reduced
		families are still part of syllabus)
1	28) Group of plants that first mo	oved from water to land are called:
	A. Tracheophytes	
	B. Bryophytes	
	C. Green algae	
	D. Blue green algae	
	29) Which of the following is an example of liverworts?	
	A. Funaria	
	B. Marchantia	
	C. Adiantum	
	D. Anthoceros	
	D. Antiloccios	
	30) The primitive vascular plants Rhynia were widespread about:	
	A. 300 million years ago	
	B. 400 million years ago	
	C. 500 million years ago	
	D. 600 million years ago	
	D. 600 million years ago	
	31) Filament is a part of:	
	A. Sepal	
	B. Petal	
	C. Stamen	
	D. Carpel	
	D. Carper	
	32) Peach tree, apple tree, tomato, and Chui mui are example of:	
	A. Gymnosperms	
	B. Bryophyte	
	C. Angiosperm	
	D. Psilopsida	
	2. I shopstar	
	33) The botanical name of "brinjal" is:	
	A. Solanum melongena	
	B. Datura alba	
	C. Solanum nigrum	
	D. Solanum tuberosum	
	34) The scientific name of Thorn	n apple is:
	A. lycopodium phlegmaria	11
	B. Anthoceros fusiformis	
	D. Datura arva	
	C. Ginkgo bilobaD. <u>Datura alba</u>	

	 35) One of the following structures is hair like which protect the sex organs of bryophytes from drying out. A. Paraphyses B. Lactophyses C. Mesophytes D. Cilia 36) Wheat, Oats, rice & corns belong to the family: A. Fabaceae B. Poaceae C. Solanaceae D. Rosaceae 	
Bioenergetics	TOPIC: Need of Energy and role of ATP as energy Photosynthesis Cellular respiration Aerobic and anaerobic respiration SUB TOPIC: (Raw material; product, process of Photosynthesis, light and dark reactions) Oxidative photophosphorylation Fermentation Glycolysis Breakdown of pyruvic acid Alcoholic and lectic acid fermentation. Krebs's cycle Electron transport chain	
	Alcoholic and lectic acid fermentation.	

	42) The photosynthetic pigments car	n be senarated by a process called:		
	A. Photosynthesis	a so sopurated by a process cancar		
	B. Respiration			
	C. Paper chromatography			
	D. Hydrolysis			
	43) The dark reaction of photosynth	esis:		
	A. Takes place in the stroma of the ch	<u>ıloroplast.</u>		
	B. Involves the fixing of water			
	C. Causes formation of lactic acid			
	D. Takes place in the cytoplasm			
		lation in Benson and Calvin cycle is known		
	as:	auton in Benson und eur in eg eie is imo wi		
	A. Fumarate			
	B. Pepsin			
	C. <u>RUBISCO</u>			
	D. Isomerase			
	45) Tri carboxylic cycle is also known	as;		
	A. Citric acid Cycle			
	B. Calvin Cycle			
	C. Lactic acid			
	D. Acetyl CoA			
Nutrition	TOPIC:	SUB TOPIC:		
NULTILION				
	Autotrophic and Heterotrophic mode of	Phototrophic and chemotrophic nutrition		
	Nutrition in Plants	in		
		plants.		
		Parasitic, saprophytic and carnivorous		
		plants		
	46) Organism prepared their own food through raw material are termed as:			
	A. Autotropic			
	B. Heterotrophic			
	C. Chemotrophic			
	D. None of these			
	D. None of these			
	47) Due to deficiency of it, leaves turn pale yellow.			
	E. Phosphorous			
	A. Nitrogen			
	B. Potassium			
	C. Magnesium			
		48) Sundew is an example of .		
	48) Sundew is an example of			
	48) Sundew is an example of :			
	A. Autotrophic plant			
	A. Autotrophic plantB. Parasitic plant			
	A. Autotrophic plantB. Parasitic plantC. Saprophytic plant			
	A. Autotrophic plantB. Parasitic plant			

Gaseous Exchange	TOPIC:	SUB TOPIC:	
	Gaseous Exchange in plants	photorespiration	
	49) The following are involved with plant respiration.		
	A. Stomata		
	B. Chloroplast		
	C. Auxin		
	D. Grana		
	50) These cells have chloroplast.		
	A. Goblet cells		
	B. R.B.C		
	C. Guard Cell		
	D. None of these		
	51) The process in which C3 plants o	onsume oxygen and produce Carbon	
	dioxide during day time without pro-		
	A. Photosynthesis		
	B. Photorespiration		
	C. Chemosynthesis		
	D. Respiration		
Transport	TOPIC:	SUB TOPIC:	
1//	Transport in Plants (Uptake and transport	Diffusion	
	of water and minerals)	Facilitated diffusion	
	Water and mineral uptake	Active transport	
	Transpiration	Osmosis	
	Transpiration	Imbibition	
		Ascent of sap	
		Pathway and movement of water and	
		minerals	
	The second second	Root pressure theory	
		(Types, stomata structure and opening and closing, transpiration as necessary evil)	
	52) In the process of guttation:	crossing, transpiration as necessary evir)	
	A. Plant can excrete salts		
	B. Excess water release from stomata		
	C. Manufacture organic substances.		
	D. Water is forced out in the form of liquid(droplets) through hydathodes		
	53) Upward movement of water from root to leaves against the gravity pull is		
	known as :		
	A. Ascent of sap		
	B. Passive transport		
	C. Diffusion		
	D. Osmosis		
	54) Symplast pathway is the transport of water and solute through:		
	A. Stomata		
	B. Cell membrane		
	C. Plasmodesmata		
	D. Cell wall		
	D. COII WAII		