

EXAMINATION MATERIAL ZUEB – 2022 BOTANY XII (PRE-MEDICAL)

Chapter's Name	MCQs (Multiple Choice Questions)	
Homeostasis	TOPIC: Homeostasis Osmoregulation in Plant Thermoregulation in plants	SUB TOPIC Definition of homeostasis, osmoregulation, excretion and feedback system Types of plant on the basis of osmoregulation Adaptation of plants to low and high temperature.
	 A. <u>Higher than the rate of ress</u> B. Less than the rate of trans; C. Less than the rate of respired. D. Remain same 3) The halophytes store or excrete A. Mesogland B. Hydro glands C. <u>Salt gland</u> D. Auxin 	p to a tolerable limit is called ygen because rate of photosynthesis is piration piration out excess salt from these glands present on leaves ntration of solvent than solute is called: are called:

	TOPIC: Support in plants Movements in plants	SUB TOPIC Parenchyma, collenchyma, sclerenchyma. Fiber, Tracheids and vessels. Secondary tissues and their significance Autonomic and induced movement with types
Support and movement	 are termed as: A. Simple tissues B. Compound tissues C. Primary tissues D. Secondary tissues D. Secondary tissues 8) These are simple living tissue A. Parenchyma B. Collenchyma C. Sclerenchyma D. Fibers 9) The region beneath the epidermition A. Cortex B. Stele C. Epidermis D. Pith 10) If the growth in the apex of your is termed as: A. Nastic B. Mutation C. Nutation D. Nastic 	g stem occurs in zig zag manner than the movement bers of ham and jute, which are used for making:

	TOPIC:
	Introduction Control in Plants
	Plant hormones
Control and	13) Ripening of fruit is a key role of
coordination	A. Cytokinins
	B. Auxin
	C. Methane
	D. <u>Ethene</u>
	14) Herbivory is the process of eating it, by herbivores animals.
	A. Animals
	B. <u>Plants</u>
	C. Fishes
	D. Birds
	15) It is produced by the plant under adverse environmental conditions.
	A. Auxin
	B. Gibberellin
	C. Cytokinins
	D. <u>Abscisic acid</u>
	16) This hormone is also act as weed killer.
	A. <u>Auxin</u>
	B. Gibberellin
	C. Cytokinins
	D. Abscisic acid
	17) One of the following proteins saves the plant from heating effect
	A. Shock wave proteins
	B. <u>Heat shock proteins</u>
	C. Heat resistant proteins
	D. Amino acid
	18) If a plant is attacked by pathogen, it produces this antibiotic which destroys or inhibits the growth of microorganism.
	A. Aflatoxin
	B. Chemo toxin
	C. <u>Phytoalexins</u>
	D. Vomitoxin

	TOPIC:	SUB TOPIC	
	Asexual and Sexual reproduction in plants	Types of sexual and asexual	
	Pollination, double fertilization	reproduction	
	Types of germination	*	
Reproduction		ysiologically similar gametes which fuse to	
	form zygote		
	A. Oogamy		
	B. Anisogamy		
	C. <u>Isogamy</u>		
	D. Heterogamy		
	20) Asexual reproduction in plants, which produce seeds without that flower being		
	fertilized is called:	produce seeds without that nower being	
	A. Sporulation		
	B. Vegetative Propagation		
	C. <u>Apomixes</u>		
	D. Parthenogenesis		
	21) Maize-grain is an example of:		
	A. Parthenocarpy		
	B. Epigeal Germination		
	C. <u>Hypogeal Germination</u>		
	D. Viviparous Germination		
		nt at the lower region, one is egg cell and the	
	other two cells are called:		
	A. <u>Synergids</u>		
	B. Antipodal cells		
	C. Definitive nuclei D. none of them		
	D. Hole of them		
	23) Fertilization occurs		
	A. Before pollination		
	B. <u>After pollination</u>		
	C. With pollination		
	D. Without pollination		
	24) As embryo grows, ovule turns into a		
	A. Fruit		
	B. Flower		
	C. <u>Seed</u>		
	D. Ovary		

	TOPIC:	SUB TOPIC	
	Growth and Development in Plants	Phases of growth and	
		secondary growth	
Growth and) The growth is confined to the certain regions. These regions are called:	
levelopment	A. Embryo		
	B. <u>Meristem</u>		
	C. Mesophytes D. Later stem		
	D. Later stem		
	26) The first phase of growth in plants is called :		
	A. <u>Cell formative phase</u>		
	B. Cell elongation phase		
	C. Cell maturation phase		
	D. Secondary phase		
	27) It is nermanent irreversible increase	e in size, weight, shape and structure of an	
	organism.	in size, weight, shape and structure of an	
	A. Meristem		
	B. <u>Growth</u>		
	C. Cambium		
	D. Medullary rays		
11.7		GUD FORM	
	TOPIC:	SUB TOPIC	
	TOPIC: Types of chromosomes	SUB TOPIC Phases of growth and	
	Types of chromosomes Chemical composition of chromosomes		
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TOPIC: Interphase Amitosis Mitosis Meiosis	SUB TOPIC Phases of mitosis and significance Phases of meiosis, significance and meiotic errors
 31) In the amitotic cell division, when is generally called: A. Karyokinesis B. Karyolysis C. <u>Nuclear Budding</u> D. Nuclear Localization 	the nuclear portions are unequal in size, the proces
 32) In which phase of cell division cheplane of the spindle? A. Interphase B. Prophase C. <u>Metaphase</u> D. Anaphase 	romosomes arrange themselves at the equatorial
 33) Synapsis takes place in which sub A. Leptotene B. <u>Zygotene</u> C. Pachytene D. Diplotene 	o-stage of Meiosis?
 34) The death of a living cell that rest A. Necrosis B. <u>Apoptosis</u> C. Cytokinesis D. Cytokinesis 	ult from tissue injury is called:
 35) Mongolism disease in also known A. Kline fetter's syndrome B. Turner's syndrome C. Nelson's syndrome D. Down's syndrome 	as
 36) Synthesis of new DNA occurs dur A. Prophase B. Mitosis C. Cytokinesis D. Interphase 	on
	Interphase Amitosis Mitosis Meiosis 31) In the amitotic cell division, wher is generally called: A. Karyokinesis B. Karyolysis C. Nuclear Budding D. Nuclear Localization 32) In which phase of cell division ch plane of the spindle? A. Interphase B. Prophase C. Metaphase D. Anaphase 33) Synapsis takes place in which suft A. Leptotene B. Zvgotene C. Pachytene D. Diplotene 34) The death of a living cell that resu A. Necrosis B. <u>Apoptosis</u> C. Cytokinesis D. Cytokinesis 35) Mongolism disease in also known A. Kline fetter's syndrome B. Turner's syndrome B. Turner's syndrome C. Nelson's syndrome D. Down's syndrome 36) Synthesis of new DNA occurs dur A. Prophase B. Mitosis C. Cytokinesis

Variation and	TOPIC:	SUB TOPIC
gene	Review of Mendel's Laws of inheritance	Genes and alleles
5011C	Sex determination and sex linkage in	Law of segregation
	0	Single trait inheritance
	Drosophila\ Sex linked inheritance in man	Inheritance of two traits.
	Sex inked inneritance in man	
		Test cross
		ncomplete dominance and co
		dominance
		Multiple allele
	37) How many pairs of homologous chromo	somes are present in Pisum sativum?
	A. Five pairs	
	B. Six pairs	
	C. <u>Seven pairs</u>	
	D. Eight pairs	
	38) A pea plant with yellow seed was cross	sed to a plant having green seeds. What will
	happen in F1 generation?	1 88
	A. Half of the seeds will be green	
	B. <u>All seeds will be vellow</u>	
	C. Half of the seeds will be yellow	
	D. All the seeds will be green	
		1.2.1
	Both will be present in the ratio of 1:2:1	
	39) The total number of alleles in a popula	ation at one time are caned:
	A. Allele constant	
	B. <u>Gene pool</u>	
	C. Gene constant	
	D. Allele pool	
	40) If and Rh negative woman marries an Rh	n positive man, her Children are
	Rh positive, because	
	A. Rh positive blood is recessive genetic trait	
	B. Female is Rh negative	
	C. Male is Rh positive	
	D. <u>Rh positive blood is dominant genetic trait</u>	
	41) Which Nobel Prize winner first selected	ed Drosophila as his experimental animal?
	A. Mendel	
	B. Darwin	
	C. <u>T.H. Morgan</u>	
	D. De Vries	
	42) Persons suffering from colour blindness have difficulty in distinguishing	
	A. Red from blue	
	B. Red from orange	
	C. Red from Yellow	
	D. <u>Red from green</u>	

Ecosystem	TOPIC:	SUB TOPIC
	Level of organization	Components of ecosystem
	The Ecosystem	(biotic and abiotic)
	Interdependence of organisms	
		eir own food from simple inorganic substances are
	called	
	A. <u>Autotrophs</u>	
	B. Heterotrophs	
	C. Xerophytes	
	D. Mesophytes	
	44) The association in which one organ	nism gets advantages and other suffers is called
	A. Symbiosis	misin gets auvantages and other suffers is caned
	B. <u>Parasitism</u>	
	C. Predation	
	D. Non-symbiosis	
	45) The region of earth, where life exis	sts is known as
	A. Atmosphere	
	B. <u>Biosphere</u>	
	C. Lithosphere	
	D. Hydrosphere	
Some major	TOPIC:	SUB TOPIC
ecosystem	Life in fresh and marine water	Forest ecosystem
eees jacenn	Terrestrial Ecosystem	Grassland ecosystem
		Desert ecosystem and tundra.
		Desert ecosystem and tundra.
	46) The places of standing water are known	
ľ	46) The places of standing water are known A. Lentic habitat	
	 46) The places of standing water are known of the standing water are known of the standard st	
	 46) The places of standing water are known of the sta	
	 46) The places of standing water are known of the standing water are known of the standard st	
	 46) The places of standing water are known of the standard standar	own as
	 46) The places of standing water are known of the sta	own as
	 46) The places of standing water are known of the sta	own as
	 46) The places of standing water are known in the sta	own as
	 46) The places of standing water are known A. Lentic habitat B. Lotic habitat C. Estuarine habitat D. Abyssal habitat 47) The biome which is covered by ice A. Savannah B. Tundra C. Taiga 	own as
	 46) The places of standing water are known in the sta	own as
	 46) The places of standing water are known. A. Lentic habitat B. Lotic habitat C. Estuarine habitat D. Abyssal habitat 47) The biome which is covered by ice A. Savannah B. <u>Tundra</u> C. Taiga D. Deciduous forest 	is called
	 46) The places of standing water are known. A. Lentic habitat B. Lotic habitat C. Estuarine habitat D. Abyssal habitat 47) The biome which is covered by ice A. Savannah B. Tundra C. Taiga D. Deciduous forest 48) Deserts occupy about of land surfation 	is called
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