Shivaji University, Kolhapur

B.Sc. (Part- III (Semester –V) Examination, October-2020 BOTANY (PAPER-XI) Subject. Code: 65838 (Fundamentals of Plant Physiology & Ecology)

Signature of Student		Signature of Jr. Sup	pervisor
Seat No		PRN:	
Day and Date: October Time:	·, 2020		Total Marks: 50
C First 2	uestion carries 2 5 solved question		
1.The term ecology was	coined from Gre	ek word	
a) oikos	b) logous		
c) ecos	d) house		
2.Kranz anatomy is char	acteristic of		
a) C ₄ plants	b) C ₃ pla	nts	
c) CAM plants	d) Succu	lent plants	
3.In photosynthesis light	is converted to _		
a) Chemical energ	y b) Kinet	ic energy	
c) Radiant energy	d) Photod	chemical energy	
4.During night, the stoma	ata are open in _		
a) CAM plants	b) C ₄ pla	nts	
c) C ₃ and C ₄ plants	d) C ₃ pla	nts	
5number of eler	ments are called	essential elements.	
a) 17	b) 20		
c) 25	d) 30		
6 are the micron	atrients to the pla	ants.	
a) Cu, Fe, Mn	b) N, P,	K	
c) Ca, K, Na	d) C, N,	O	

7. Which of the following is a	micronutrient	
a) Cu	b) K	
c) Ca	d) Na	
8. Process of selective transmi	ssion of liquid through semipermeable membrane i	is
called as		
a) Diffusion	b) Osmosis	
c) Plasmolysis	c) Transmission	
9.Nitrogen is converted to am	monia in presence of enzyme.	
a) Peroxidise	b) Catalase	
c) Ligase	d) Nitrogenase	
10.Glycolysis process occurs i		
a) Cytosol	b) Endoplasmic reticulum	
c) mitochondria	d) chloroplast	
11.1nif-genes are reported in b	pacterium	
a) Escherichia coli	b) Xanthomonas compestris	
c) Cercosporarosicola	d) Klebsiella pneumoneae	
	compound is three carbon organic acid named as_	_
a) Pyruvic acid	b) Oxaloacetic acid	
c) 3-Phosphoglyceric	d) Phosphoric acid	
<u> </u>	alga consists of enzyme	
a) nitrate reductase	b) nitrogenase	
c) catalase	d) dehydrogenase	
14 number of eleme	ents are "essential elements".	
a) seventeen	b) Seven	
c) twenty one	d) twenty Seven	
15 In photophosphorylation pr	cocess, process, sunlight is used for synthesis of	
a) PGA	b) ATP	
c) AMP	d) ADP	

	During light reachion,	splitting of water	molecule occurs, the	ne process is referred	
as_	a) Photolysis.	b) Pl	nosphorylation		
	c) Photoperiodism		notorespiration		
18.	The plants are called _	of Ecosys	stem.		
	a) Producers	b) Decompose	c) Consumers	e) Rotifers	
19.	Ecological pyramids a a) triangular b)			d) hexagonal	
20.	The mangrove ecosyst	tem shows	_	chain.	
21.	The electron transport a) one b)		large macr		
22.	Conversion of Pyruvi a) Mg ions		Co- A requires d) C		
23.	are the site a) chloroplast perox b) Mitochondria, i c) chloroplast, Gol d) Mitochondria, ri	kisomes and Mitoribosomes and per gi complex, ribo	chondria roxisomes somes		
24.	cycle i	is sedimentary cy	cle.		
	a) Phosphorus			arbon	
25.	Energy flow is alway a) Unidirectional c) Circular	b) N	Multidirectional Bidirectional		
26.	is produ	act of aerobic Res	piration		
	a) Pyruvic acid	b) alcohol			
	c) Ethylene	d) Malic aci	d		

27. In Pond ecosystem the pyrar	nid of biomass is	
a) upright	b) inverted	
c) spindle shaped	d) None of this	
28 are the elements, w	ithout which, the plants will not be able to	
complete its life cycle.		
a) Fertilizers	b) Microelements	
c) Macroelements	d) Essential elements	
29. Diffusion of water through s	electively permeable membrane is	
a) osmosis	b) imbibition	
c) translocation	d) diffusion	
30. Community refers to	components of the ecosystem.	
a) living and non-living	b) non-living	
c) living	d) none of the above	