	н	ALF YEARLY EXAM	INATION- 20	22
CLASS:11 BIOLOGY				
TIME: 3.00 Hrs			MARKS: 7	
	Instructions: 1. C	theck the Question paper for the Hall Supervisor immed	or fairness of printing lately. 2. Use Blue of	g. If there is any lack of Black ink to write and
	underline and per	BIO - BOTANY -	SECTION-I	8 x 1 = 8
	Answer all the qu	estions choose the correct	answers.	The state of the s
1.	Which the plant gro	b) Pteridophytes	c) Bryophytes	d) Gymnosperme
2.	Phyllotaxy found in	Calotropis is	a) Opposite super	posed d) Ternate
2.			a) Multicarpellary,	apocarpous ovary
3.	Aggregate fruit dev	elops from syncarpous ovary c) Multicar	nellary ovary d) Wh	ole inflorescence
٥.	h) Multicarpellary, S	syncarpous ovary c) Multicar	pelial y over y	
4.	The pairing of Homo	ologous chromosomes on meio	c) Bivalent	d) Synapsis
7.	a) Disjunction b) Synergiels c) Bivalent c) Bivalent a) Disjunction c) Bivalent c) Bivalent c) Bivalent c) Bivalent b) PS II is found in the outer membrane of thylakoid c) PS I is found in stromal lamella b) PS I is found in the inner membrane of thylakoid c) PS I is found in stromal lamella			
5.	Identify the correct	statement. a) PS II is lound	oid c) PS I is found in st	romal lamella
3.			, id c)	
	d) ps II is found in 9	I dila larrens		
6.	Match the followin	g.	ixin B	
0.	1. Human urine	ii) G		
	2. Corn grain oil	iii) A	bscissic acid	
	3. Fungi	iv) K	inetin	
-	4. Herring sperm	v) Au	uxin A	
	5 voling corn grain	vi) 7	'eatin	4 iv 5 - vi 6 - iii
			b) 1 - v, 2 - i, 3 - i	i, 4 -iv, 5 - vi, 6 - iii
	a) 1 - iii, 2 - IV, 3 -	a) 1 - iii, 2 - iv, 3 - v, 4 - vi, 5 - ii, 6 - iv		
	c) 1 - iii, 2 - v, 3 - v	avehance takes place freely	/ in cortex	tarcellular spaces which
7.	Assertion : Gaseou	s exchange takes place freely ntain parenchyma cells. Paren	nchyma cells contain ir	itercendia, open
	Doscon . Cortex co	Illam parens.) explains (A)
3	aids in gaseous exci	larige.	b) (A) is correct (N	CAPICITO
	a) (A) is correct (R) is wrong a) (A) is correct (R) is wrong d) Both (A) and (R) are wrong where of ATP and NADPH required are			
	a) (A) is correct (R) is wrong (B) is correct (C)(A) is wrong (R) is wrong (C)(A) is wrong (R) are wrong (C)(A) and (R) are wrong (C)(A) and (R) are wrong (C)(A) are wrong (C)(A) is wrong (R) is correct (C)(A) is wrong (R) is correct (C)(A) is wrong (R) is wrong (C)(A) is wrong (R) is correct (C)(A) is wrong (R) is wrong (R) is correct (C)(A) is wrong (R) is wrong			
8.	For every CO2, Hole	b) 2 ATP + 2 NADPH c)	2 ATP + 3 NADPH U)	
	a) 3 ATP + 3 NADPH	SECTION -	II	$4 \times 2 = 8$
	any four at	estion.		
П	Answer any four question. Draw a neat labelled diagram of open vascular bundle.			
9.	- C - Bolting			
10.		osphorylation?		
1.	What is substrate phospholytetes. How root climbers differ from stein climbers?			
2.	What is Plectostele? What is Plectostele?			
3.	Mention the different types of plasma creation III			
14.	PICILION SITO	SECTION-1	compulsory.	3 X 3 = 9
II	Answer any three q	uestion. Question no 19 is	emonos	The state of the s
II L5	Write short note on:	a) Gynostegium. b) Heteroste		
to and	1 11 -111-5			

What is flagellin? 16.

List out any three physiological effects of cytokinin.

In which season the vessels of angiosperms are larger in size. Why? 17. 18.

Differentiate DNA and RNA 19.

SECTION - IV

 $2 \times 5 = 10$

Write about the steps involved in Gram staining. (OR) Describe the structure of protein.

Give the floral characters & Datura metal (OR) Write down the cytoplasm series reactions 20. occurring in the cytoplason during respiration. 11 BIOLOGY PAGE-1

11 BIOLOGY PAGE-2

BIO - ZOOLOGY (PART-I) Choose the correct answer. 1 X 8 = 8 Who coined the term biodiversity? d) AP de Candole. a) Walter Rosen b) AG Tansley c) Aristotle 2. . Nephridia of Earthworms are performing the same function as a) Gills of prawn b) Flame cells of planaria c) Trachea of insects d) Nematoblasts of Hydra Kidney of from in 3. Kidney of frog is b) Pronephros c) Mesonephros d) Metanephras a) Archinephros Assertion: (A) Large intestine also shows the presence of Villi like small intestine. Reason : (B) Absorption of water takes place in large intestine. a) Both A and B are true and B is the correct explanation of A. b) Both A and B are ture but B is not the correct explanation of A. d) A is false but B is true. c) A is true but B is false. Dub Sound of heart is caused by b) opening of semi-lunar valves d) opening of atrio - ventricular values a) closure of atrio-ventricular values c) closure of semi-lunar values Identify the wrong match. 6. a) Bowman's capsule - Glomerular filtration Absorption of glucose b) DCT c) Henle's loop - Concentration of urine Absorption of Na⁺ and K⁺ ions. Inflammation of joints due to accumulation of uric acid crystals results in b) Osteoporosis C) Rheumatoid arthritis d) Osteoarthritis a) Gout Which one of the following statement is correct? 8. a) calcitonin and thymosin are thyroid hormones b) Pepsin and prolactin are secreted in stomach c) Secretin and rhodopsin are polypeptide hormones d) Cortisol and aldosterone are steroid hormones PART-II $4 \times 2 = 8$ Answer any four questions. How Aristotle classified animals? 10. Compare open and closed circulatory system. 11. Draw a labelled diagram of a nerve cell. 12. Write short note on clitellum. How male frog differs from female frog? Classify the cattle breeds based on its purpose. 13. 14. Answer any three questions. &. No. 19 is Compulsory. $3 \times 3 = 9$ Mention the salient features of Phylum Annelida. 16. Write about protein deficiency disorders. 17. How the body makes long-term adjustments when living in high altitude? 18. Differentiate osmoregulators and osmoconformers with example. Briefly describe the types of joints. PART-IV $2 \times 5 = 10$ Answer all the questions. $2 \times 5 = 1$ 20. a) Explain how animals can be classified based on the patterns of symmetry with an example. (OR) b) Write short note on the refractive errors of eye. 21. a) Describe the events of Cardiac cycle. (OR) b) Write an account on the secretions of Adenohypophysis.