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COMMON HALF YEARLY EXAMINATION - 2024 - 25

Time Allowed: 3.00 Hours

BIOLOGY

[Max. Marks: 70

Part - I (Bio-Botany) (Marks: 35)

SECTION - I

Note. (i) Answer All the questions.

(ii) Choose the most appropriate answer from the given four alternatives and write the option code and corresponding answer.

1. Identify the Archaebacterium

a) Acetobacter

b) Erwinia

c) Treponema

d) Methanobacterium.

2. In gymnosperms endosperm is formed

a) At the time of fertilization

b) Before fertilization

c) After fertilization

d) Along with the development of Embryo

3. Vexillary aestivation is characteristic of the family.

a) Fabaceae

b) Asteraceae

c) Solanaceae

d) Brassicaceae.

4. The sub units of prokaryotic ribosomes is

a) 40S + 60S

b) 70S + 30S

c) 60S + 30S

d)30S + 50S

5. The correct sequence in cell cycle is

a) S-M-G1-G2

b) S-G1-G2-M

c) G1-S-G2-M

d) M-G-G2-S.

6. The common bottle cork is a product of

a) Xylem

b) Phellem

c) Vascular bundle

d) Phellogen.

7. For every CO₂ molecule entering the C3 cycle, the number of ATP & NADPH required.

a) 2ATP + 2 NADPH

b) 2 ATP + 3 NADPH c) 3 ATP + 2 NADPH d) 3 ATP + 3 NADPH

8. In uni sexual plants, sex can be changed by the application of

a) Ethanol

b) Cytokinins

c) ABA

d) Auxin

SECTION - II

II. Answer any four questions.

 $4 \times 2 = 8$

9. What is prion?

10. What do you infer from the term pycnoxylic?

11. Draw the plant cell and label it.

12. Define Enzyme.

13. What is Plasmolysis?

14. What is Bolding?

SECTION - III

III. Answer any three questions.(Q.N. 19.is compulsory)

 $3 \times 3 = 9$

15. Write the importance of Mycorrhizae.

16. What is author citation.?

17. Differentiate between Sap wood and Heart wood.

18. Write a note on Hydrophonics.

19. What are the physiological effects of Gibberellins.

SECTION - IV

IV. Answer all the questions.

2×5=10

20. Explain the different types of Placentation with example.

Write the floral description of Clitoria ternatea.

21. Make a chart of Glycolysis pathway (EMP pathway).

What are differentiate between cyclic and Non cyclic photophosphorylation.

TPR/ 11 /J/ Bio / 1

PART - II (BIO-ZOOLOGY) (Max. Marks: 35)

	SECTION.					
No	lote: 1. Answer all the questions		town and the S	to to	4.50	THE REAL PROPERTY.
	2. Choose the most suitable answer from the	e č	jiven four altern	ative	s and writ	e the
	option code and the corresponding answ	ver	1161			8x1=8
1.	Molecular taxonomic tool consists of	- t- t-	datas da la constanta de la co			
•	a) DNA and RNA	,	Mitochondria an	d End	docplamic r	eticulum
	c) Cell wall and Membrane proteins	d)	All the above			
2	Enterokinase takes part in the conversion of	- 1	4			
	a) Pepsinogen into pepsin		Trypsinogen into			
	c) Protein into polypetide	d)	Caseinogen into	case	ein	
3	Vital capacity is					. 551
•	a) TV+IRV b) TV+ERV	c)	RV + ERV	d)	TV + IRV	+ ERV
Δ	Angiotensinggen is synthesized by		7574		700 10 700	
	b) Atrial cell of heart	c)	Liver	d)	adrenal co	rtex
5	ATPase enzyme needed for muscle contraction	is	located in			
.	a) actinin b) troponin	C.	myosin	d.	actin	
5	Sleep and wake cycle is regulated by		& will will be			
٠.	a) Pituitary gland b) Thalamus	c)	Pineal body	d)	Hypothala	mus
7.	1 11	nus	s with anterior lo	be c	of pituitary	gland is
	the					
	a) Dendrites of neuro hypophysis	b)	Axons of neurohy	poph	nysis	
	c) Bands of white fibers from cerebellar region of	d)	Hypophyseal por	tal sy	stem	
2	Isinglass is used in		s are a line with the	A 7 1		
٠.	a) Preparation	b)	Clearing of wines	, <i>i</i>		
	α/ 110βαιατίοι	•	Preservation of w		e se tita	<u> </u>
	o) Biolination of thires	•	ON - II			
1	. Answer any four of the following questions.		3.00			4x2=8
	What is Tautonymy?				2 40	
	0. Some epithelia are pseudostratified. What does t	this	mean?			- 5° (+ 4, 1
	1. Define - BMI		the same of the	1		i i i i i i i i i i i i i i i i i i i
	2. What are heart sounds? Where and how are the	se	sounds produced	1?		
	3. What is Blind spot?					
	4. Write the functions of (CCK) Cholecystokinin.				Service .	
٠,	SECTION -	- 11	1	1	- Shung Ma	
11	. Answer any three of the following questions.			Con	npulsory.	3x3=9
	5. Differentiate Protostomia and Deuterostomia.			Cartin.	a mangaga	and the same
	6. Why do you call cockroach a pest?		12.8		1 1340	JA4 21 0 8 5
	7. How the body makes long – term adjustments wh	en	living in high altit	ude?	Tegrande H	
	B. Differentiate cortical nephrons from medullary ne			auc:	ACCEPT FILE	水 第
	What are the advantages of artificial insemination	-	10115.	dan	The state of the s	
0.	SECTION -		L. The Manager	Mary	rivering the tra	THE MET !
.,		17.	398 A. C.			2x5=10
ν. 20	/. Answer the following questions.	l .			have affer the	283-10
ر ب	0. Differentiate the Chordate animals from non-chor	ua	te animals.	37.	108 -5	
	OR	mp -	-ntraction			
21	Enumerate the schematic presentation of muscle	e C	ontraction.	C.Kd.	with it w	a State
	1. Explain the sensory receptors present in the skin		A STATE OF THE STATE OF	il and	The state of the s	S. C. S. S.
	OR Discuss the various techniques adopted in pattle	h	anding?			
	Discuss the various techniques adopted in cattle	pre	eaing?	54.0	Land of the	18 5