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14 Pansing gan is goorated by		, ,		Fe <sup>++</sup>	(C)	$Fe^{+++}$	(D)	$Ca^{++}$
(A) Mucous cells (B) Parietal cells (C) Zymogen cells (D) Epithelial cells	——————————————————————————————————————							Epithelial cells
Which one of the disease is caused by breakdown of alveoli of lungs:	15 Wh	nich one of the disc	ease is c	aused by breal	kdown of	alveoli of lungs	:	
(A) Asthma (B) Emphysema (C) Tuberculosis (D) Lung Cancer								Lung Cancer
How many litres of blood are present in man whose body weight is 72 kgs:	16 Hov		lood are	present in ma	in whose l	body weight is 7	2 kgs:	
				<u> </u>	(C)		(D)	6
(A) 9 (B) 8 (C) 7 (D) 6	17 If s	w many litres of b	(B) 8					
	(A)	w many litres of b	(B) 8			be:		

лі No <b>віоLo</b>	CV 224-1 <sup>st</sup> Annual-(INTER PART – I) Time Allowed: 2.40 nour	s -
	CROUP I Maximum Marks: 68	
	SECTION - I LHR-1-24	
2. Wri	te short answers to any EIGHT (8) questions :	16
(i)	What is the unit of biological inheritance and where the information for structure and	
(1)	function of a cell are stored?	
(ii)	How does low temperature affect the activity of an enzyme?	
(iii)	If more concentration of enzymes is added beyond optimum level in a system, the rate of	
	reaction remain unchanged, Why?	
(iv)	What is ES-Complex? How it is formed?	
(v)	What is a hypha? What is the advantage of having incomplete septa?	
(vi)	On which basis the deuteromycetes are classified as imperfect fungi?	
(vii)	Differentiate polyps and medusa.	
(viii)	Why exoskeleton of echinoderm is called endoskeleton?	
(ix)	What is notochord? Write its function.	
(x)	List any four harms of insects.	
(xi)	Define bioenergetics. Does it obey the law of thermodynamics?	
	What are cytochromes? Give their function.	16
	What are cytochromes? Give their function.  ite short answers to any EIGHT (8) questions:  Define biome. What is the use of biome?  Differentiate the population and community.  What are plastids? Name their types.  What is the chlorella? Give its habitat.  Define thallus. Give examples of thallophytes.	10
(i)	Define biome. What is the use of biome?	
(ii)	Differentiate the population and community.	
(iii)	What are plastids? Name their types.	
(iv)	What is the chlorella? Give its habitat.	
(v)	Define thallus. Give examples of thallophytes.	
(vi)	What is the commercial importance of marine algae?	
(vii)	Enlist four major groups of kingdom protista.	
(viii)	What is lysosome? Give its function.	
(ix)	What is myoglobin? State its any one furction.	
(x)	Name respiratory pigment in human beings and where it is found?	
(xi)	Differentiate the plasmolysis and incipient plasmolysis.	
	What is the importance of transpiration?	12
	ite short answers to any SIX (6) questions :	14
(i)	Write down biological classification of corn.	
(ii)	Name four phases of bacterial growth curve.	
(iii)	Differentiate the archegonia and antheridia.	
(iv)	What is double fertilization? In which group of plants it occurs?	
(v)	Lycopsids are also called club mosses. Why?	
(vi)	Write biological name of rice and tomato.	
(vii)	What is Jaundice? Give its causes.	
(viii)	How do the nematocysts help the animal in ingestion of the prey?	
(ix)	Name the kinds of cells and their secretions of gastric gland.	
	SECTION - II	
Note:	Attempt any THREE questions.	2.0
5. (a)	How genetically identical organisms can be produced by cloning?	2,2
(b)		2,2
	What is RNA? Describe three types of RNAs.	1,3
(b)	. a cc 'ul -t - l-mt thom to torroctrial mode of file	4
	to the formula may and alvoyy somes are different. How?	2,2
7. (a)	Describe the digestion in cockroach. Also draw labelled diagram of digestive system.	2,2
	Describe the digestion in cockroach. Also draw had been and different types	2,2
8. (a)	Write a detailed note on hepatitis? Explaining its causes and different types.	,
(b)		2,2
	exchange of material?	4
9. (a)	Discuss nutrition in bacteria.	4
(b)	Draw and discuss non-cyclic photophosphorylation.	

. No	(To be filled in by the candidate) (Academic Sessions 2020 – 2022 to 2023 – 2025)
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Q.PAPEI	R-I (Objective Type) GROUP-II Maximum Marks: 17  PAPER CODE = 6462
Jata . E	our possible answers A, B, C and D to each question are given. The choice which you think is correct,
vote : f	ill that circle in front of that question with Marker or Pen ink in the answer-book. Cutting or filling
fs fs	wo or more circles will result in zero mark in that question.
1-1	
	(A) Tissue (B) Organs (C) Cells (D) Organelles
2	The type of monosaccharide rare in nature is:
	(A) Triose (B) Pentose (C) Tetrose (D) Hexose
3	The region in the active site of an enzyme that recognizes the proper substrate is:
	(A) Binding site (B) Catalytic site (C) Prosthetic group (D) Inhibitor
4	The cells which produce new cells for growth and development of the plant are:
•	(A) Chlorenchymatous cells (B) Meristematic cells
	(C) Parenchymatous cells (D) Sclerenchymatous cells
5	An ancient disease caused by enveloped DNA virus is:
	(A) Small pox (B) Poliomyelitis (C) Influenza (D) Measles
6	When death rate becomes equal to newly formed bacteria is:
	(A) Lag phase (B) Log phase (C) Stationary phase (D) Decline phase
7	Which one of the following have a shell of interlocking cellulose plates impregnated with silica:
A .	(A) Dinoflagellates (B) Diatoms (C) Kelps (D) Red algae
L	(Turn Over)
	Call Call Call Call Call Call Call Call
1-8	Most of the visible part of the following organism consist of fungus:
	(A) Mycorrhizae (B) Lichen (C) Plant (D) Algae
9	The reproductive structure having two wings in the life-cycle of pinus is:
	(A) Ovule (B) Microsporophyll (C) Megasporophyll (D) Pollen grain
10	Coelenterate that exist only in polyp form is:
	(A) Hydra (B) Obelia (C) Aurelia (D) Physalia
11	The organ of excretion in arthropods is:
	(A) Nephridia (B) Malpighian tubules (C) Booklungs (D) Kidney
12	What is the location of ETC and chemiosmosis in animal cell:
	(A) Lysosomes (B) Mitochondria, (C) Stroma (D) Granum
13	Who hypothesized that plants split water as a source of hydrogen, releasing oxygen as
	a by-product:
, i	(A) Calvin (B) Hans Kreb (C) Van Niel (D) T.W. Engelmann
14	The loss of appetite due to the fear of becoming obese is known as:
	(A) Dyspepsia (B) Obesity, (C) Bulimia nervosa (D) Anorexia nervosa
15	The single circuit heart does not pump blood directly to all body parts in:
	(A) Salamandar (B) Crow (C) Monkey (D) Shark
16	Guttation is loss of water through water secreting glands. What is the name of these glands:
	(A) Lenticels (B) Stomata (C) Hydathodes (D) Imbibition
17	The main body cavity in cockroach is known as:
1,	(A) Haemocoel (B) Coelom (C) Pseudocoel (D) Pericardium
L	133-224-II-(Objective Type)- 5125 (6462)
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Roll No BIOLOGY	(To be filled in by the candidate) (Academ	tic Sessions 2020 – 2022 to 2023 – 2025
PAPER – I (Essay Ty		Time Allowed: 2.40 hours
THER -I (Essay Iy		Maximum Marks: 68
2 W-:41	SECTION - I	HR-2-24
(i) Define and C	ers to any EIGHT (8) questions:	16
or mater.	c heat capacity of water. What is the value of s	specific heat of vaporization
(ii) Define enzyme	e. What is the function of binding site of the er	1zvme?
(iii) Distinguish be	lween reversible and irreversible inhibitors of	244
(iv) now the low at	nd high temperatures respectively affect on one	****** * 4
(v) Ivallic soil dwe	illing carnivorous fungus. How does it food on	soil and the
(vii) Why annelids a	ediation. What is the role of lichens during econd arthropods are considered having same original	ological succession?
(viii) What is the eco	onomic importance of mollusca?	gin?
(ix) Differentiate th	e ostia and osculum	
(x) Define regenera	ation. Name the phylum in which regeneration	is common
(A) State the locality	on chloroplasts inside the leaf. Give their nu	imber per square
minimeter of le	ai suriace aiso.	
3. Write short answer	e external and cellular respiration. rs to any EIGHT (8) questions:	<b>CO</b> (1)
(i) What is hiologic	col control? Write and questions:	16
(ii) Differentiate ter	cal control? Write one example. rms biotechnology and molecular biology.	G
(iii) Give chemical of	composition of primary and secondary cell wall	
(iv) Write down two	salient features of cell theory.	1.
(v) What are trichor	nymphas?	
(vi) Give important t	features of red algae (any two).	
(VII) What is the role	of pellicle in ciliates?	
(ix) What is respirate	and is formed by foraminiferans?	
(x) Write down two	ory distress syndrome?	
(xi) Differentiate terr	properties of respiratory surfaces in animals. ns imbibition and guttation.	
(xii) What is incipient	t plasmolysis?	
4. Write short answers	s to any SIX (6) questions:	
(i) Differentiate the	capsids and capsomeres.	12
(ii) Compare nucleus	S with nucleoid	
(iii) Name two living	genera of Psilopsida.	
(iv) How would you	compare microphylls and megaphylls?	
(V) What is prothallu	s? Give an example.	
(vi) What do you kno	w about an embryo sac?	
(viii) What are deficient	ncy symptoms of potassium and nitrogen in plan	nts?
(ix) What is the differ	-prey interaction helps in maintaining ecosyste ence between carnivores and omnivores?	m stable?
() What is the differ		
Note: Attempt any Tl	SECTION – II	
1 7	d organization applaints to the state of the	_
(b) Describe respirati	l organization, explain it at organ and system le	
	els of protein organization.	4
(b) Discuss different	methods of asexual reproduction in fungi.	4
7. (a) Differentiate the p	prokaryotic and eukaryotic cells.	4
(b) Write detailed not	te on digestion in cockroach.	2,2
8. (a) Discuss four viral	diseases.	4
(b) Describe lymphati		4
	methods of nutrition in bacteria.	4
( )	e of non-cyclic phosphorylation.	2,2
		4-II-(Essay Type)-عمراه
		(====, -J Pc) =====