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Intermediate Part First - 903

Paper Code 6465

BIOLOGY (Objective) GROUP - I Time: 20 Minutes Marks: 17

Marks: 17

Roll No.: _	
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You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill the relevant circle in front of that question number on computerized answer sheet. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero marks in that question. Attempt as many questions as given in objective type question paper and leave other circles blank.coi

S.#		·	<u> </u>	4-22	
3.#	Questions	A	В	C	D
1	Yeasts are unicellular:	Algae	Protozoans	Fungi	Bacteria
2	Entamoeba histolytica causes:	Dysentery	Fever	Cholera	Hepatitis
3	Bacterial pathogenicity is due to:	Capsule	Cell wall	Cyst	Slime
4		Animal	Plant	Bacteria	Fungi
5	The number of chromosomes in drosophila melanogaster is:	08	14	16	26
6	Enzymes lower down the energy of:	Kinetic	Activation '	Potential	Ionic
7	Cotton is the pure form of:	Glycogen	Waxes	Cellulose	Amino acids
8	In human body the amount of iron is	46	0.4%	13.)4 %	0.004 %
9	Which is not granulocytes?	Monocytes	Neutrophils	Eosinophils	Basophils
10	The right atrium receives deoxygenated blood from these parts of the body except:	Brain	Liyer	Lungs	Kidneys
11	The respiratory system is the most efficient in:	Man	Birds	Reptiles	Fish
12	Which animal has no need for a gall bladder?	Cat	Dog	Lion	Goat
13	Functional group of chlorophyll 'a' is:	СН₃	СНО	СООН	ОН
14	Lactic acid is formed in these except during extreme physical activities:	Man	Fish	Horse	Cat
15	These are arachnids except:	Scorpion	Beetles	Ticks	Mites
16	Which one is not a pseudocoelomate?	Ascaris	Earthworm	Ancylostoma	Round worms
17	An ovule is an Integumented indehiscent:	Micro- sporangium	Seed	Sporogonium	Mega- sporangium

Intermediate Part First

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GROUP - I

LOGY (Subjective)
Time: 02:40 Hours N

Marks: 68

SECTION - I	
2. Write short answers to any EIGHT parts.	1.0
(1) How basic proteins play their role in combined form with nucleic acide?	16
(11) Why enzymes need optimum pH for their proper functioning? Give one example	
(III) why some enzymatic reactions occur in series to form the final products? Explain briefly	
(IV) Which model for enzyme substrate interaction is more supported? Discuss briefly that model	
(v) Name four diseases caused by fungi.	
(vi) How karyogamy is different from plasmogamy?	
(VII) Write four characteristics of mammals.	
(viii) Give economic importance of mollusca.	
(ix) Define the term regeneration and name animal which exhibit it.	
(x) What are coral reefs and where they are found?	
(xi) Differentiate between chlorophyll-a and chlorophyll-b.	
(xii) What are the differences between alcoholic and lactic acid fermentation?	
3. Write short answers to any EIGHT parts.	16
(i) Why organ system is less complex in plants as compared to animals?	10
(11) What are adverse effects of use of chemicals during its use to control pests?	
(III) What is difference between cisternae and cristae?	
(iv) Why mitochondria are called self-replicating organelle?	
(v) From where the Giant Amoeba obtain energy?	
(vi) How ciliates differ from protozoans?	
(vii) Name the parasitic flagellates and disease caused by it and how it is transmitted?	
(VIII) Why rungus like profists are not fungi?	
(ix) Differentiate between antheridiophore and archegoniophore.	
(x) Write names of two extinct and two living members of psilopsida.	
(xi) Define guttation. What factors affect it?	
(xii) Write role of lymphatic system in defense of body.	
4. Write short answers to any SIX parts.	12
(i) Write short note on polio.	
(ii) Define plasmids. What is its use?	
(iii) Write any two digestive functions of liver.	
(iv) What is ulcer? Write few lines on it.	
(v) Differentiate ectoparasites and endoparasites with examples.	
(vi) What is the function of parabronchi in birds?	
(vii) Define photorespiration. Give its consequences.	
(viii) Define Calvin Benson Cycle.	
(ix) What the role spiracles play in cockroach respiration?	
SECTION - II Attempt any THREE questions. Each question carries 08 marks.	
1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
5. (a) Why is some diseases vaccination is used while for others preventive measures are adopted?	04
(b) Discuss major solutes and their role in blood plasma.	04
6. (a) Explain the importance of carbon in living organisms.	
(h) Describe different methods of second lower 1	04
(b)Describe different methods of asexual reproduction in fungi.	04
7. (a) How does physical methods differ from chemical methods to control bacteria?	04
- (b) How does evolution of microphyll differ from evolution of megaphyll?	
	04
8. (a) Write a note on five kingdom classification system of Robert Whittaker.	04
(b) Sketch the process of glycolysis. (No description required)	04
9. (a) What is endoplasmic reticulum? Write its types and functions.	
(b) Describe digestion of food in amount in the control of food	04
(b)Describe digestion of food in small intestine.	04
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Intermediate Part First - 004

Paper Code

BIOLOGY (Objective) GROUP - II
Time: 20 Minutes Marks: 17

Roll No.:

6462

You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill the Q.No.1 relevant circle in front of that question number on computerized answer sheet. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero marks in that question. Attempt as many questions as given in objective type question paper and leave other circles blank.doo

Γ	S.#	0	1-60-62-32				
H	3.#	& messions	A	В	C	D	
	1	Branch of biology which deals with the study of distribution of animals in nature is called:	Biogeography	Zoogeography	Phytogeography	Palaeontology	
	2	Lipoproteins are structural framework of:	Chromosomes	Nucleoid	Membranes	Chromatin	
	3	During metabolic reactions, these substances can be used again and again:	Co-factor	Enzymes	Enzymes and coenzymes	Prosthetic group	
	4	A lipoprotein membrane (crista) contains F1-Particles and different:	Nucleotides	RNA I	Electron carriers	Nucleoli	
	5	CD ₄ -receptor is present on:	Plasma cells	Helper T-cells	B- Lymphocytes	Natural killer cells	
	6	When a bacterium posses a single flagellum at one pole is termed as:	Atrichous	Lophotrichous	Amphitrichous	Monotrichous	
	7	Entamoeba histolytica causes:	Intestinal parasite	Lung parasite	Brain parasite	Blood parasite	
	8	Reindeer moss is a:	Moss	Animal	Lichen	Plant	
	9	All seed producing plants are called:	Arthrophytes	Angiosperms	Pteridophytes	Spermatophytes	
	10	Sponges are protandrous hermaphrodite because:	Female sex cells develop first	Ovaries develop first	Sperms)cells develop first	Testes develop	
:	11	A solid double ventral nerve cord is present in earthworm, hence earthworm is dissected from:	Ventral side	Dorsal side	Lateral side	Ventrolateral	
]	12	Pyruvate decarboxylase activity is inhibited by; optimal concentration of:	ATP	NAD⁺	NADH	Citrate	
]	13	Two molecules of reduces NAD produces molecules of ATP in respiratory chain.	3	6	4	2	
1	4	A neurotic disorder in slightly older girls is called:	Anorexia nervosa	Dyspepsia	Obesity	Bulimia nervosa	
1		Emphysema is the breakdown of:	Bronchi	Alveoli	Trachea	Bronchioles	
1		Highest blood pressure is in aorta is generated by contraction of:	Right ventricle	Left atrium	Right atrium	Left ventricle	
1	7	During filling of heart chambers, walls of chambers are relaxed indicate:	Atrial diastole	Cardiac diastole	Ventricular systole	Ventricular diastole	

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Intermediate Part First

Roll No. _____

BIOLOGY

(Subjective)

GROUP - II

Time: 02:40 Hours

Marks: 68 F8D-C2-23

in the same and	CECTION I	tes services
	SECTION – I	16
2. W	rite short answers to any EIGHT parts.	
(i)	Why cellulose is digested in herbivores but not in humans?	,
(ii)	Why pencin is secreted in form of pensinogen?	10
(iii	Name an enzyme which act in acidic medium and also give its pH.	And the second
(iv	Why inorganic ions cannot be used as co-enzyme?	Souther for the
(v)	THE HILL PAINT TOTAL CONTROL OF THE PAINT OF	The state of the s
(vi	What are predator fungi? Give an example.	Post Meet
	i) Differentiate between diploblastic and triploblastic organisms.	-
(vi	ii) How and reaf are formed?	
(ix	Write two adaptations of parasites for parasitic mode of life.	. Level de la
(x)	Write two harmful effects of insects.	
(xi	TARE (W) IIII IIII OI OILOUS OF THE	3
100	i) What is lactic acid fermentation? Also write its equation.	16
3. W	rito -!	16
(i)	rite short answers to any EIGHT parts.	1
(ii)	What is hydroponic culture technique? Give its uses.	a property
(iii	How and when a hypothesis becomes a theory?	Const. 19
(iv		
(v)		1
(vi	TOW CIC DELICACION OF THE PROPERTY OF THE PROP	*
(vi	Odi voi sive coonomie importante	3
(vi	- Thou type of pigmana - I	1
(ix	ii) Give two characteristics of red algae.	4
	That is protonome. In the second	28
(x)	TVC Tour examples of severe	3
(xi	. That is pressure posterior	4
(xi		12
4. 💖	rite short answers to any SIX parts.	ŧ,
(1)	What is provided?	
(ii)	The chilate between promety	a de la companya de l
(iii	TALIN IN INSPEDDIG.	* 4
(iv)	T HALLS ADDOLLATIONS.	2,000
(v)	Citie peristrisio.	1
(vi)		1
(vii		
(vii	11) Yr tat ' tames description of the more of the	
(ix)	Why most of the cetaceans have high concentration of myoglobil in muscles:	7 '
	to the coming 08 marks	
	SECTION $-\Pi$ Attempt any THREE questions. Each question carries of marks.	04
5. (a)	How can we protect ourselves from the incurable diseases?	
(b)	W can we protect ourselves from the members are properly transpiration.	04
(0)	That is transpiration? Explain the stomatal transpiration.	04
6. (a)	rite a note on primary and secondary structure of proteins.	04
(b)	City a note on primary and secondary	04
	Give economic losses due to fungi.	02,02
7. (a)	Prove is diversity in respiration of bacteria. Prove it. Give examples.	02,02
(b)	Pere is diversity in respiration of bacteria. Prove it. Give on the significant? what does alternation of generations refer in plants (Bryophytes)? How it is significant?	
	What does afternation of Branch	01,03
s. (a)	Define viruses and describe their characteristics.	04
(b)	I scuss Krebs cycle with sketch in detail.	0.4
		04
(a).	fferentiate between prokaryotic and eukaryotic cells.	04
(0)	rite a note on absorption of food in ileum of human.	
	u	