Roll No. 762451 (Inteffled in by candidate)

(For all sessions)

Paper Code 6 4 6 1

Biology (Objective Type)

2WP-11-19

Marks: 17

Time: 20 Minutes

NOTE: Write answers to the questions on the objective answer sheet provided. Four possible answers

A,B,C and D to each question are given. Which answer you consider correct, fill the corresponding circle A,B,C or D given in front of each question with Marker or pen ink on the answer sheet provided.

1.1.	The most recent era is:		. /	(D) Mesczoic		
	(A) Proterozoic	(B) Paleozoic	(C) Cenozoic	(D) WCSCLO		
2.	The specific heat of vapo	rization of water in Kcal/kg is:	/ / / / / /	(D) 602		
	(A) 580	(B) 574	(C) 597	101 0011		
3.	Optimum pH for Arginase	e enzyme is:	101.070	(D) 7 60		
	(A) 4.50	(B) 5.50	(C) 9.70	1-1		
4.	Cisternae are associated) with	(C) Nucleus	(D) Chloroplast		
	(A) ER	(B) Mitochondria	(C) Nucleus	1 -1		
5.	Madcow infection is caus	sed by	(C) Vrions	(D) Protozoans		
	(A) Bacteria	(B) Prions	(C) VEIGHS			
6.	Reserve food material in	cyanobacteria is:	JON Changes	(D) Cellulose		
	(A) Starch	(B) Glucose	(C)/Glycogen			
7.	Pelomyxa palustris is ar	example of	A Algan	(D) Amoeba		
	(A) Bacterium	(B) Ciliate	(C) Algae			
8.	Aspergillus belongs to F	Phylum:	/ LDV A amusolo	(D) Basidiomycota		
	(A) Zygomycota	(B) Deuteromycota	(C) Ascomycota	20		
9.	- u U - in		(C) Gametophyte	(D) Seed		
	(A) Sporophyte	(B) Saprophyte	(C) Gameroporte			
10	kangaroo belongs to sub-class		(C) Prolotheria	(D) Megatheria		
	(A) Eutheria	(B) Metatheria	(C) Holoston			
11	. Sea urhin belongs to p	hylum:	(C) Arnelida	(D) Protozoa		
	(A) Arthropoda	(B) Echinodermala				
12	. The number of chlorop	last in each mesophyli cell is a	(C) 20-100	(D) 20-200		
	40 400	(B) 10-200	(0)			
1:	. The breaking of termin	hal bond of ATP releases energy	(C) 6 BKcal	(D) 7.3Kcal		
	(A) 4.5Kcal	(B) 3 /Kcai	(C) 6 Six.			
	4. Casparian strips are p	resent in cells of root.	(C) Endodermis	(D) Xylem		
	(A) Cortex	(B) Epideritis	(0)			
1	The valves present in the veins are called		(C) Tricuspid	(D) Aartic		
	(A) Diguerard	(B) Semi-julia	(0)			
	6. Excess gastric secret	ions is an important factor of	(C) piles	(D) Food poisoning		
	(A) Peptic ulcer	(R) Opears	(O) p			
	7. Respiratory system is	s most efficient in	(C) Snake	(D) Bird		
	(A) Fish	(B) Man				
		825	5-011-A-☆			

(to be filled in by the candidate)

(For all sessions) RNP-11-19

Biology (Essay Type)

Time: 2:40 Hours

Marks: 68

Section - I

2x22=44

2.	Write short answers of	any	eight	parts!	from t	he '	followin	g.
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2x8=16

- . What are Dikaryotic hyphae?
- iii. Draw labelled diagram of HIV
- v. How pH affects the rate of enzyme action?
- vii. Give two important characteristics of mammals.
- ix. What is the agricultural importance of Earthworms.

- Differentiate between infectation and disinfestation.
- xi. Define Biodiversity? Give its percentage of different groups of organisms discovered so for
- xii. Differentiate between septate and non-septate hyphae?
- 3. Write short answers of any eight parts from the following.

2x8=16

- iii. How algae differ from plants?
- v. Give two examples each of Red algae and Green algae. vi. Name the classes of division bryophyte.
- vii. Differentiate between homospory and heterospory.
- ix. Differentiate between absorption and assimilation.
- xi. What is botulism?
- xii, Differentiate between carnivores and omnivores
- 4. Write short answers of any six parts from the following.
 - i. What is glycogenosis type-II disease?
 - iii. Differentiate between amylose and amylopectin starches.
 - v. Compare guttation with transpiration.
 - vii. What is respiratory distress syndrome?
- ix. Differentiate between breathing and cellular respiration

I Write down main physical methods to control bacteria. ii. Write down two important characteristics of diatoms.

Differentiate between radiotherapy and gene therapy

Give some affinities of Echimoderms with hemichordales

Diffferentiate between pepsin and pepsinogen.

How temperature affects the rate of enzyme action?

- iv. What is Trypanosoma? What disease does it cause?
- viii. What is biglogical oxidation?
- x. Differentiate between aerobic and anaerobic respiration

2x6=12

- What is differentially permiable membrane?
- What do you know about blue babies?
- Write four properties of respiratory surface in animals
- viii Define photorespiration.

Section - II

8x3=24 NOTE: Answer any three questions from the following. 5. (a) What is Biological Method? Describe its various steps (b) Give four differences between arteries and veint 6. (a) Describe polysaccharides in detail. (b) Fungi are well adapted to live on land. Give reasons. 7. (a) What are plastids? Describe structure and function of chloroplast (b) Explain the process of digestion in cockroach. 8. (a) Give characteristics of viruses. (b) Draw glycolysis. Give its energy balance 9. (a) Discuss bacteria under the given headings (i) Écological importance (ii) Économic importance (b) Define alternative of generation. Explain significance of Alternation of generation

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