



-11-19

Sign. Dy. Supdnt.

Fictitious Roll No. (For Office Use)

Sign. Candidate

BIOLOGY

(INTERMEDIATE)

(PART - I)



019/1

Marks : 17

(OBJECTIVE PART)

Time : 20 Minutes

Note:- Write your Roll No. in space provided. Over writing, cutting, using of lead pencil will result in loss of marks. All questions are to be attempted.

1- Each question has four possible answers, Tick (✓) the correct answer. (17)

1) ✓	Percentage of carbon in human body is;						
A	65%	B	10%	C	18%	D	3%
2) ✓	Which of the following is a lipid;						
A	Chitin	B	Rubber	C	Starch	D	Sucrose
3) ✓	Salivary amylase works best at pH;						
A	4.5	B	6.8	C	7.2	D	8.5
4) ✓	Cell wall is secreted by the;						
A	Nucleoplasm	B	Protoplasm	C	Cytoplasm	D	Karyoplasm
5) ✓	Temperate phage may exist as;						
A	Prophage	B	Capsid	C	Viroid	D	Retrovirus
6) ✓	The smallest bacterium is;						
A	Mycoplasma	B	E. Coli	C	Campylobacter	D	Clostridium
7) ✓	Pelomyxa palustris is;						
A	Bacterium	B	Amoeba	C	Zooflagellate	D	Ciliate
8) ✓	Sexual reproduction is absent in;						
A	Deuteromycota	B	Basidiomycota	C	Ascomycota	D	Zygomycota
9) ✓	Rootless sporophyte is found in;						
A	Lycopsida	B	Psilopsida	C	Sphenopsida	D	Pteropsida
10) ✓	Fasciola is the name given to;						
A	Tapeworm	B	Liver fluke	C	Planaria	D	Earth worm
11) ✓	Pseudo coelom is the characteristic feature of the phylum;						
A	Nematoda	B	Echinodermata	C	Mollusca	D	Annelida
12) ✓	The fluid filled region of chloroplast is called;						
A	Matrix	B	Stroma	C	Cisternae	D	Cytoplasm
13) ✓	The product of succinic acid by the action of enzyme is;						
A	Fumaric Acid	B	Malonic Acid	C	Citric Acid	D	Pyruvic Acid
14) ✓	The animals which feed on organic debris are;						
A	Herbivores	B	Carnivores	C	Omnivores	D	Detritivores
15) ✓	Rubisco reacts with oxygen instead of CO ₂ during;						
A	Glycolysis	B	Photorespiration	C	Krebs cycle	D	Respiration
16) ✓	The pressure flow theory was first proposed in 1930 A.D. by;						
A	E. Haeckel	B	E. Munch	C	Fleming	D	Dixon
17) ✓	One cardiac cycle is completed in;						
A	0.3 seconds	B	0.5 seconds	C	0.8 seconds	D	1.2 seconds

(The End)

BIOLOGY

PAPER : PART - I

MARKS: 68

TIME : 2:40 Hours

019/1
INTERMEDIATE)

(SUBJECTIVE PART)

SECTION - I

2- Write short answers of any eight parts. (2 x 8 = 16)

i	Write down the general formula of amino acid.	ii	How temperature affects on enzyme activity?
iii	What do you know about induce fit model?	iv	Differentiate between co-enzyme and prosthetic group.
v	Define nuclear mitosis.	vi	Differentiate between septate and coenocytic hyphae.
vii	Differentiate between ostia and osculum.	viii	What are coral reefs?
ix	Give three (03) basic characters of chordates.	x	What are marsupial mammals? Give 02 examples.
xi	What is Alcoholic fermentation?	xii	What is a photosystem? Name its two parts or components.

3- Write short answers of any eight parts. (2 x 8 = 16)

i	Differentiate ecosystem and community.	ii	Define phyletic lineage write its importance.
iii	What is cell fraction method?	iv	How chromoplast helps in plant life cycle.
v	Differentiate slime molds and water molds.	vi	Why large kelps are considered as protoctists.
vii	Give features of <i>pelomyxa palustris</i> .	viii	Write features of foraminifera.
ix	What is role of endosperm?	x	Why bryophytes need water for reproduction.
xi	How stomata is regulated by hormone.	xii	Give blood route in cockroach circulatory system.

4- Write short answers of any six parts. (2 x 6 = 12)

i	What are prions?	ii	What are mesosomes, give its functions?
iii	Give scientific names of pitcher plant and venus fly trap.	iv	What are Hunger Pangs?
v	What is Dyspepsia?	vi	What is Rubisco?
vii	What are parabronchi?	viii	What is Asthma?
ix	Differentiate between Glottis and Epiglottis.		

SECTION - II

Note:- Attempt any three questions. (8 x 3 = 24)

5	(a)	Give role of Biology in field of food production.	(04)
	(b)	Discuss root pressure in plants and its role in ascent of sap.	(04)
6	(a)	Write note on Polysaccharides.	(04)
	(b)	Give detail of animal diseases caused by fungi.	(04)
7	(a)	Describe general characteristics of cyanobacteria with special reference to <u>Nostoc</u> ?	(04)
	(b)	Give life cycle of <u>Adiantum</u> ?	(04)
8	(a)	Discuss two to five kingdom classification system.	(04)
	(b)	Sketch Krebs Cycle.	(04)
9	(a)	Describe Functions of plasma membrane.	(04)
	(b)	Explain the process of digestion in cockroach.	(04)

(The End)