Biology

Ime: $2\frac{1}{2}$ Hours]

PARTS - A & B

[Max. Marks : 50

istructions:

- 1. Answer the questions under Part A on a separate answer book.
- 2. Write the answers to the questions under Part B on the question paper itself and attach it to the answer book of Part A.

ime: 2 Hours]

PART - A

[Marks : 35

SECTION – I (Marks: $4 \times 1 = 4$)

ote: 1) Answer ANY FOUR questions from the following.

- 2) Each question carries ONE mark.
- 1. What is Blood Transfusion?
- 2. When does Callus form?
- 3. What are the requirements for Photosynthesis?
- 4. What are Nissil granules? Where do you find Nissil granules?
- 5. Expand NIN.
- 6. What is Glossitis?

SECTION – II (Marke: $5 \times 2 = 10$)

lote: 1) Answer ANY FIVE questions choosing atleast TWO from each GROUP 'A & B'.

2) Each question carries TWO marks.

Group - A

- 7. Drawthestructure of Chloroplast and label the parts.
- 8. Who are Universal Donors? Who are Universal Recipients?
- 9. Write a short note on Ovum of Frog.
- 10. Describe the duties of Village Health Guide.

Group - B

- 11. What is Apical Dominance? How does it influence plants?
- 12. What is Fluorosis? How does it affect the body?
- 13. What is incubation period (Write about HIV. 2007 March Question)
- 14. Mention the sources and the chemical name of Vitamin A.

SECTION – III (Marks: $4 \times 4 = 16$)

- Note: 1) Answer ANY FOUR questions, choosing at least 1WO from each GROUP.
 - 2) Each question carries FOUR marks.

Group - A

- 15. How can you show that heat is liberated during respiration?
- Describe the composition of human blood. In what way, calcium helps the body? Name the food materials which are rich sources of Calcium.
- 18. Write a brief account on Hepatitis.

Group - B

- 19. Write an account on the structure of a Datura flower. Draw and label the diagram.
- 20. Write the definition of Asexual and Sexual reproductions. What are the major differences between a sexual and sexual reproductions?
- 21. Write a brief account on Adrenal gland.
- 22. Whyis the spread of HIV a burning issue today? (What first aid do you render for fractures? - 2007 March Question)

SECTION – IV (Marks: $1 \times 5 = 5$)

- Note: 1) Answer ANY ONE question.
 - 2) The question carries FIVE marks.
- 23. Draw a neat and labelled diagram of male reproductive system of Frog.
- 24. Draw a neat and labelled diagram of Leaf, which is the most suitable structure for Photosynthesis.

Time	: 30 Mínutes}	PAR	T-B			[Marks:
Note						-
	1) Answer all the questions.	*1		•		
	2) Each question carries $\frac{1}{2}$ mark.	0 22				
	3) Candidates must use the Capital L	etters wi	hile ans	wering the multiple	choice	e questions.
	4) Marks will not be awarded in cas					
	Anguar the following Each questi			rul in Aba bland		
I.	Answer the following. Each questi- ries 1/2 mark. (10 ×	$\frac{1}{2} = 5$	II.	Fill in the blank		
1.	The process in which energy sto	-		Each question car		,
••	Carbohydrates released is known		11.	Sinus venosus is		•
	A) Photosynthesis B) Respiration	n	12.	The famous Russia experiments on co		
	C) Reproduction D) Excretion		13.	Mumps is caused		
2.	The substance that prevents clot blood in blood vessels is	ting of	14.	Cane sugar is cal	-	
	A) Haemoglobin B) Heparin	()	15.	The production of		
	C) Thyroxin D) Pepsin		15.	The production c		s caned
3.	Dicotyledonous weeds are destroy	yed by	16.	The fluid that flo	vs bety	veen the outer an
a.	a chemical called	()		middle membran		
	A) Indole acetic acid B) 2-4 dichloro-phenoxy acetic acid					
	C) Abscissic acid		17.	Chrys an bemun		
	D) Naphthalene acetic acid		İ	means of		
4.	In diseases like Polio, the cells wh	ich get	18.	Early ripening o	f fruit	s is promoted b
	destroyed by virus are A) Monocytes B) Erythrocy	()	190	Th !	 !!	TIR7
	C) Motor Neurons D) Sensory N		190	is the only cure f		or HIV
· 5.	The most essential floral organs		20.			s sterility in males
	required for Sexual reproduction	()	ш.			$(5\times \frac{1}{2}=2\frac{1}{2})$
	A) Calyx and Corolla				mg.	
•	B) Corolla and Androecium C) Gynoecium and Androecium		·	Group - A		Group - B
	D) Gynoecium and Thalamus		21.	•) (A)	Protein - calorie defi
6.	Deficiency of Pantotheric acid res	sults in	1	ciency		
	burning of	()	22.			Spores
	A) Stomach B) Hands C) Feet D) Heart		23. 24.	Marasmus (Yeast (Protein deficiency Tissue culture
7	'Grave-yard of Red Blood Cells' is	(25.	Fungi () (D)) (E)	
••	A) Spleen B) Liver	, ()		- ung.) (E) . (F)	Budding
	C) Lymph D) Kidney					First Aid
8.	The cartilagenous rings that supp				, ,	
	trachea of man are in the shape of	()				$(5\times \tfrac{1}{2}=2\tfrac{1}{2})$
	A) J B) D C) O D) C			Group - A		Group - B
9.	Foetus is connected to the wall of	Uterus	26.	Xerophthalmia () (A)	Cow milk
•	of the mother by	()	27.	Vitamin - K () (B)	Testis
	A) Placenta B) Umbilical		28.	Vitamin-C (Clitellum
3.2	C) Fallopian tube D) Epididyme		29.	Earthworm (Carbon fixation
10.	The micro-nucleus of Paramoecius	m con-	30.	Abscissic acid (Scurvy
	trols A) Respiration B) Digestion	. ()	,			Eye
	(1) Excretion (2) Reproduct	ion			(G)	Fall of flowers