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 – 1 (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: $5 \times 2 = 10$)

iote: 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 atleast TWO from each GROUP.
 - 2) Each question carries FOUR marks.

Group - A

- 15. How can you show that heat is liberated during respiration?
- 16. Describe the composition of human blood.
- 17. 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

- 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 × 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 Minutes]	PART - I	B [Marks:
Note:	1) Answer all the questions.		
			answering the multiple choice questions. r–writing or re-writing or erased answers.
I.	Answer the following. Each questi	·	II. Fill in the blanks with correct answer
1.	ries 1/2 mark. (10 x The process in which energy sto Carbohydrates released is known A) Photosynthesis C) Reproduction B) Respiratio D) Excretion The substance that prevents clot blood in blood vessels is A) Haemoglobin C) Thyroxin D) Pepsin	$(\frac{1}{2} = 5)$ ored in as () 1	Each question carries 1/2 mark. $10 \times \frac{1}{2} = 11$. Sinus venosus is formed by the union of 12. The famous Russian Scientist, who conduct experiments on conditioned reflexes was 13. Mumps is caused by
3. 4.	Dicotyledonous weeds are destro a chemical called A) Indole acetic acid B) 2-4 dichloro-phenoxy acetic acid C) Abscissic acid D) Naphthalene acetic acid In diseases like Polio, the cells whe destroyed by virus are A) Monocytes B) Erythrocy C) Motor Neurons D) Sensory N	l l l l l l l l l l l l l l l l l l l	 16. The fluid that flows between the outer a middle membranes and covers the brain 17. Chrysanthemum propagates often means of
5.	The most essential floral required for Sexual reproduction A) Calyx and Corolla B) Corolla and Androecium C) Gynoecium and Androecium D) Gynoecium and Thalamus	()	20. The vitamin prevents sterility in mal III. Match the following: $(5 \times \frac{1}{2} = 2\frac{1}{2})$ Group - A Group - B 21. Haberlandt () (A) Protein - calorie (
6. 7	Deficiency of Pantothenic acid reburning of A) Stomach C) Feet B) Hands C) Heart 'Grave-yard of Red Blood Cells' is	sults in 22 22 24	ciency 22. Kwashiorkor () (B) Spores 23. Marasmus () (C) Protein deficient 24. Yeast () (D) Tissue culture 25. Fungi () (E) Vitamin-D deficie
8.	A) Spleen B) Liver C) Lymph D) Kidney The cartilagenous rings that supper trachea of man are in the shape, of A) J B) D	oort the	(F) Budding (G) First Aid $(5 \times \frac{1}{2} = 2)$ Group - A Group - B
9.	C) O D) C Foetus is connected to the wall of of the mother by A) Placenta B) Umbilical C) Fallopian tube D) Epididymorphisms	cord 2	26. Xerophthalmia () (A) Cow milk 27. Vitamin - K () (B) Testis 28. Vitamin - C () (C) Clitellum 29. Earthworm () (D) Carbon fixation
10.	The micro-nucleus of Paramoecius trols A) Respiration B) Digestion C) Excretion D) Reproduc	m con-	30. Abscissic acid () (E) Scurvy (F) Eye (G) Fall of flowers