

20E (B)

GENERAL SCIENCE, Paper-II

(Biological Sciences)

(English Version)

Parts A and B

Maximum Marks : 50

Time : 2½ Hours

Part B

This Question Paper contains 4 printed pages.

Attach **Part 'B'** question paper to the main answer book of **Part 'A'**.

Time : 30 Minutes

Marks : 15

Instructions :

1. Answer **all** questions.
2. Each question carries ½ mark.
3. Answers are to be written in the question paper only.
4. Marks will not be awarded in case of any overwriting and rewriting or erased answers.

I. Write the CAPITAL LETTER showing the correct answer for the following questions in the brackets provided against them. $10 \times \frac{1}{2} = 5$

1. The maximum rate of respiration takes place at []
(A) 10°C to 25°C (B) 30°C to 40°C
(C) 60°C to 100°C (D) 100°C and above
2. The method of respiration in an amoeba is []
(A) transpiration (B) osmosis
(C) diffusion (D) inhalation
3. Iodine can be used to test the presence of []
(A) glucose (B) light
(C) starch (D) carbon dioxide

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4. The life span of W.B.C. is []
(A) 14 to 15 days (B) 10 to 12 days
(C) 12 to 13 days (D) 15 to 20 days
5. Conversion of glycogen to glucose is stimulated by []
(A) insulin (B) cortisol
(C) glucagon (D) progesterone
6. Carpels are present in []
(A) androecium (B) pistil
(C) ovules (D) seeds
7. The organism that reproduces asexually is the []
(A) protozoa (B) frog
(C) lizard (D) housefly
8. The male reproductive system consists of the []
(A) umbilical cord (B) testes
(C) fallopian tubes (D) placenta
9. Graafian follicles are present in the []
(A) fallopian tube (B) uterus
(C) vagina (D) ovary
10. Which gas is released from vehicles? []
(A) Cl_2 (B) NO
(C) CO (D) Hg

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II. Fill in the blanks with the correct answers.
Each question carries $\frac{1}{2}$ mark.

10 x $\frac{1}{2}$ = 5

11.
..... are the respiratory organs in a cockroach.
12. Photosynthesis is an anabolic process and respiration is a
..... process.
13. The pumping device in the transport system is
14. In man, caval veins open into
15. In 1900, the scientist
discovered blood groups.
16. Agranulocytes and granulocytes are cells.
17. The proposal of a plant growth substance was first put forward by
18. Kwashiorkor is caused due to the deficiency of
19. The definition of MIC is
20. Example of a mixed gland is

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III. Match the following by writing the letter of the correct answer in the bracket.
Each question carries $\frac{1}{2}$ mark.

Group 'A'

Group 'B'

5 x $\frac{1}{2}$ = 2 $\frac{1}{2}$

- | | | |
|--------------------------|-------|------------------------|
| 21. Vitamin A | [] | (A) Megasclex |
| 22. Earthworm | [] | (B) Neuron |
| 23. Conditional reflexes | [] | (C) Axon |
| 24. Nissl granules | [] | (D) Ivan Pavlov |
| 25. Aorta | [] | (E) Thiamine |
| | | (F) Deoxygenated blood |
| | | (G) Oxygenated blood |

Group 'A'

Group 'B'

5 x $\frac{1}{2}$ = 2 $\frac{1}{2}$

- | | | |
|----------------------|-------|---------------------|
| 26. Ground layering | [] | (A) 'O' blood group |
| 27. Thyroxin | [] | (B) Diffusion |
| 28. Universal donors | [] | (C) Rose plant |
| 29. Riboflavin | [] | (D) Thyroid gland |
| 30. Amoeba | [] | (E) Beri-Beri |
| | | (F) Bryophyllum |
| | | (G) Glossitis |
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