

VIGNAN GLOBAL GEN SCHOOLS

GUNTUR :: HYDERABAD :: VIZAG :: RAJAHMUNDARY :: ELURU :: CHARLA

Class : X (2008-09)

MODEL PAPER

Time : 2½ Hours

Sub : BIOLOGY

Max. Marks : 50

PART - A

Marks : 35

SECTION - I

Answer any FIVE of the following choosing atleast two from each group : **5 X 2 = 10**

GROUP - A

1. Define photosynthesis ? Write the equation showing all the requirements and end products formed ?
2. What are respiratory substrates ? Give two examples.
3. What is mixed gland ? Give example ?
4. Draw the diagram of neuron ?

GROUP - B

5. Distinguish between sexual and asexual reproduction ?
6. Write about reproduction in housefly ?
7. How is placenta formed ? What is its function ?
8. What are the duties of village health guide ?

SECTION - II

Answer any FOUR of the following : **4 X 1 = 4**

9. What is pigment ?
10. What is exoskeleton ?
11. How is sinus venosus formed ?
12. What is action potential ?
13. What is fluorosis ?
14. Who discovered HIV virus ?

SECTION - III

Answer any FOUR of the following choosing atleast two from each group : **4 X 4 = 16**

GROUP - A

15. How is light energy converted to Chemical energy ?
16. Write the differences between Erythrocytes and Leucocytes ?
17. What is reflex action ? How do you withdraw your hand when you touch a hot object ?
18. Why pituitary gland is called master of the glands ? Explain its hormones and functions ?

GROUP - B

19. Write the applications of plant tissue culture ?
20. What is menstrual cycle ? Explain its phases ?
21. What life skills are necessary to protect us from HIV - AIDS ? Which life skill would you like ?
22. What are the rules for the first - aid to be followed ?

SECTION - IV

Draw any one of the diagram : **1 X 5 = 5**

23. Draw a neat labelled diagram of ovule of a flower ?
24. Draw a neat labelled diagram of the Human Male reproductive system ?

I. Choose the correct answer :-

10X½=5

1. In plants, Exchange of gases takes place through ()
a) Stomach b) Epidermis c) Mid rib d) Vascular bundle
2. Respiration takes place in the presence of ()
a) Light b) Chlorophyll c) Moisture d) Optimum temperature
3. Graveyard of RBC ()
a) Lymph b) Kidney c) Heart d) Spleen
4. Cortisol is Secreted by ()
a) Pituitary gland b) Thyroid c) Pancreas d) Adrenal cortex
5. Internal fertilization occurs in ()
a) Earthworm b) Parmoecium c) Housefly d) Frog
6. Graffian follicle occurs in ()
a) Vagina b) Uterus c) Placenta d) Ovary
7. Cellulose is a _____ ()
a) Mineral b) Fat c) Carbohydrate d) Protein
8. Vitamin 'C' helps in the absorption & storage of ()
a) Iodine b) Sulphur c) Iron d) Sodium
9. In which of the following disease protection is offered by a mosquito net ()
a) Encephalitis b) Mumps c) Measles d) Hepatitis
10. Endosperm nucleus forms from the fusion of male gamete with ()
a) egg b) Zygote c) Secondary nucleus d) Antipodal cells

II. Fill in the blanks :

10X½=5

11. The total content of the blood is _____.
12. _____ discovered blood groups.
13. Pericardium is associated with _____.
14. Early ripening of fruit is promoted by _____.
15. Glucagon is secreted when the level of Glucose in blood is _____.
16. Chrysanthemum propagates by means of _____.
17. Zygote divides by means of _____.
18. The last stage of HIV infection is _____.
19. Deficiency of pantothenic acid causes _____.
20. Paramyxovirus causes _____ disease.

III. Match the following :

10x¹/₂=5

- | | | |
|--------------------------------|----------------|--------------------------------------|
| 21. Melvin calvin | () | a) Confirmed mosquito spread malaria |
| 22. F.W.Went | () | b) Carbon fixation |
| 23. G. Haberland | () | c) accessory factor in milk |
| 24. H.G. Hopkins | () | d) Blood groups |
| 25. Sir Ronold Ross | () | e) Auxins |
| | | f) Tissue culture |
| | | |
| 26. Vitamin 'C' | () | a) Rickets |
| 27. Vitamin 'B ₆ ' | () | b) Pantothenic acid |
| 28. Vitamin 'D' | () | c) Pyridoxin |
| 29. Vitamin 'B ₁₂ ' | () | d) Anaemia |
| 30. Folic acid | () | e) Scurvy |
| | | f) Cyanacobalamin |