

GENERAL SCIENCE

Paper - II

(Biological Science)

Time : 2 1/2 Hrs. Max. Marks : 50

PART - A

TIME : 2 hrs

Marks : 35

SECTION - 1

NOTE : 1. Answer any four Questions from the following.

4X1=4

2. Each Question carries One mark.

1. Pancreas place vital role in digestion of food. Which are the enzymes are secreted from this gland.
2. what is nonstick movement ? give an example?
3. Expand the ASHA.
4. Tannins are important secondary metabolites of the plants. Where do we use them?
5. What is the genotypic ratio and phenotypic ratio in the monohybrid experiment of pure breed of tall and pure breed of dwarf plants .
6. Digestion food is the complex process. Which systems are involved in this process?

SECTION - II

5 x 2 = 10

NOTE:

1. Answer any five ques time from the following choising at least TWO from each Group And B

2. Each Question Carries TWO marks.

GROUP – A

7. Write the differences between light phase and dark phase of photosynthesis?
8. Which question do you ask the doctor about function of heart?
9. What happens if all functions of body are controlled by the brain?
10. flourosis is one of the major problem in India. What precaution has to follow control this disease.

GROUP – B

11.



What represents this diagram? Wher do you find it ? how it is useful to us.

12. What is meant by homologous and analogous organs and give examples.
13. What happens if carnivores are extinct from the ecosystem.
14. What is sustainable development ?how it possible.

SECTION - III

NOTE : 1. Answer any FOUR Questions from the following choosing at last TWO from A group & Group

2. Each Question carries FOUR marks.

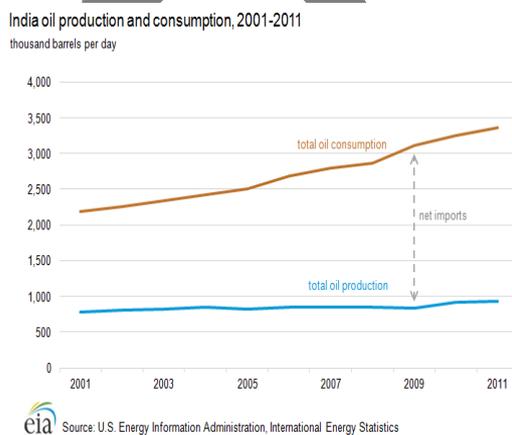
4 X 4=16

GROUP-A

15. How would you demonstrate that green plant release oxygen when exposed to light?
16. What procedure you followed to understand anaerobic respiration in your school laboratory.
17. What is dialysis? Explain process of dialysis.
18. Already you collected information about the effects of hormones on the body .Show this information in the tabular form.

Group-B

19. Give the reasons.
 - A. if we press tongue against the palate we can recognize taste easily.
 - B. We can't identify taste when food is very hot.
 - C. Small intestine is similar to a coiled pipe.
20. Should we use pesticides as they prevent our crop and food from pests or should we think of alternatives? Write your view about this issue and give sound reason for your answer.
21. What is the law of independent assortment? Explain with an example.
22. Observe the graph carefully and answer the following.



- A. Does the production meet consumption rate.
- B. During which period of time shows highest increase in consumption.
- C. Suggest some ways to bring down consumption of petroleum?
- D. Which factor or influencing the consumption rate .

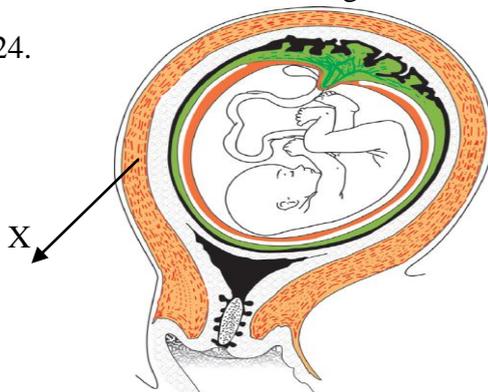
SECTION - IV

Note: 1. Answer any ONE Question from the following

2. This Question carries five marks

23. Draw a neat labeled diagram of Nephron.

24.



1. What represents this diagram.
2. Which parts are seen in this diagram?
3. What is 'X'.
4. How the Embryo gets nutrients.
5. What protects embryo from mechanical injuries.

PART - B

Time: 30 Minutes

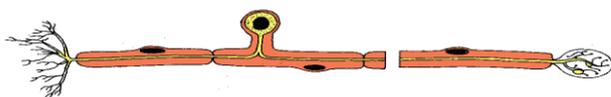
Marks: 15

Instructions

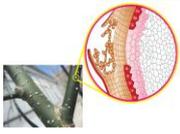
1. Answer all Questions

2. Each Question carries 1/2 Mark.

1. Kavya is suffering from Anemia which tablets do you suggest her. ()
A) Ascorbic acid B) Pantothenic acid C) Tocoferol D) Folic acid.
2. Vijay is suffering from respiratory problems. Whom do he consult ()
A) Cardiologist B) Gynecologist C) pediatricist D) pulmonologist
3. Nafesa warned her sister that don't laugh while eating. -why ()
A) Nafesa jealous towards her sister B) laughing while eating may cause indigestion.
C) laughing while eating may cause choking D) Laughing while eating may cause belchings
4. Which of the following is correct. ()
A) If weight of animal increases, heart size become increases and heart beat rate also increase.
B) If weight of animal increases, heart size become decreases and heart beat rate also decrease.
C) If weight of heart increases, heart size become increases and heart beat rate become decreases.
D) If weight of heart increases, heart size become decrease and heart beat rate become increase.
5. What is health adult person's blood pressure ()
A) 80/120 B) 120/80 C) 72/120 D) 120/72
6. In _____ animals first the blood uses as transporting medium. ()
A) Annelidans B) helmenthes C) Arthropods D) Molluscus
7. What do you prove with experiment of " shirt button and match stick" ()
A) Heart beat B) Pulse rate C) nerve pulse D) all of the above.



8. What it indicates ()
A) Motor neuron B) Sensory Neuron D) Mixed neuron E) Intermediate neuron
9. Srinadh is suffering from sugar-diabetes. which gland is not have proper function in him. ()
A) Liver B) pancreas C) Thyroid D) Adrenal gland
10. Motor part of the Spinal cord.
A) Dorsal root B) Ventral root. C) White mater D) Grey mater
11. Which of the following is use for safe sex. ()
A) Loop B) Condom C) spermicides D) Contraceptive pills.

12. Pollen tube grows from pollengrain and reach the ovule .it is a ____ ()
 A) Photo tropism B) Hydro tropism C) Chemo Tropism D) Geo tropism
13. Whre do you find double fertilization ()
 A) Honey bees B) Paramecium C) Fishes D) Plants
14. Which of the following is correct order in cell cycle. ()
 A) G1,G2,S,M b) G1,S,M,G2 C) G1,S,G2,M D) M,G1,G2,S.
15. In which part of the digestive system the Chyme prepared. ()
 A) Oral cavity B) stomach C) Small Intestine D) Large Intestine
16. Who proposed the theory of evolution at first ()
 A) Darwin B) Mendal C) Lamarck D) Russel wallace
17. In which of the following oranism there is no conection between respiration and circulation.
 A) Fish B) Bird C) Earth worm D) Cockroach
18. What is meant by Genitic drift ()
 A) change in genetic pool B) Frequency of genes in small population
 C) Evolution D) Survival of the fittest.
19. Which of the following gas is known as earth eating gas ()
 A) Methane B) Carbondioxide C) Chlorofluorocarbons D) all of the above
20.  What is this indicating ()
 A) Stomata B) Lenticell C) respiratory roots D) virus infection
21. Rickets is the disease due to the deficiency of _____
22. The nerves arising from the ganglia of the brain and the posterior part of spinal cord is forms _____
23. Equilibrium of body is maintained by _____ part of the brain.
24. _____ Membranous structure protects embryo from mechanical injury.
25. Which district of Our state is highly effected by fluorosis _____

Match the following

- | | | |
|---------------------------|-----|-------------------|
| 26. Fermentation | () | A) Yeast |
| 27. Cutaneous respiration | () | B) Frog |
| 28. Anabolic activity | () | C) Respiration |
| 29. Power house | () | D) Photosynthesis |
| 30. Energy Currency | () | E) Mitochondria |
| | | F) ATP |
| | | G) NADPH |