

KOMARASAMY GOUNDER MAT.HR.SEC.SCHOOL – KURUMANDUR

6TH FULL PORTION TEST

X –STANDARD

BIOLOGY

TIME : 3 HOURS

PART – A

MAXIMUM MARKS :75

I.CHOOSE THE CORRECT ANSWER :

12 X 1 = 12

1. Which software is used to create animation?

- a) Paint b) PDF c) MS Word d) Scratch

2. The xylem and phloem arranged side by side on same radius is called:

- a) radial b) amphivasal c) conjoint d) None of these

3. The segments of leech are known as ____.

- a) Metameres (somites) b) Proglottids
c) Strobila d) All the above.

4. Which is the sequence of correct blood flow?

- a) ventricle – atrium – vein – arteries b) atrium – ventricle – veins – arteries
c) atrium – ventricle – arteries – vein d) ventricles – vein – atrium – arteries

5. The outer most of the three cranial meninges is:

- a) arachnoid membrane b) piamater
c) duramater d) myelin sheath

6. Which organ acts as both exocrine gland as well as endocrine gland?

- a) Pancreas b) Kidney c) Liver d) Lungs.

7. Male gametes in angiosperms are formed by the division of ____.

- a) Generative cell b) Vegetative cell
c) Microspore mother cell d) Microspore.

8. The loss of one or more chromosome in ploidy is called ____.

- a) Tetraploidy b) Aneuploidy c) Euploidy d) Polyploidy.

9. The best way of direct dating fossils of recent origin is by:

- a) Radio-carbon method b) Uranium lead method
c) Potassium-argon method d) Both (a) and (c)

10. DNA fingerprinting is based on the principle of identifying ____ sequences of DNA.

- a) single-stranded b) mutated c) polymorphic d) repetitive.

11. Where does alcohol effect immediately after drinking?

- a) Eyes b) Auditory region c) Liver d) Central nervous system.

12. Which of the following statement is wrong with respect to wind energy?

- a) wind energy is a renewable energy
b) the blades of windmill are operated with the help of an electric motor

- c) *production of wind energy is pollution-free*
- d) *usage of wind energy can reduce the consumption of fossil fuels*

PART - B

II.ANSWER ANY 7 OF THE FOLLOWING : Q.NO.22 IS COMPLUSORY

7 X 2 = 14

- 13. *Write a short note on mesophyll.*
- 14. *Write the dental formula of rabbit.*
- 15. *Why is the circulation in man referred to as double circulation?*
- 16. *Medullated and non-medullated nerve fibre.*
- 17. *What will you do to prevent leaf fall and fruit drop in plants? Support your answer with reason.*
- 18. *Draw and label the structure of human sperm.*
- 19. *Why did Mendel select pea plant for his experiments?*
- 20. *Why is Archaeopteryx considered to be a connecting link?*
- 21. *State the applications of DNA fingerprinting technique.*
- 22. *What are the symptoms of heart diseases?*
- 23. *Although coal and petroleum are produced by degradation of biomass, yet we need to conserve them. Why?*

PART - C

III.ANSWER AANY 7 OF THE FOLLOWING : Q.NO. 32 IS COMPULSORY.

7 X 4 = 28

- 24. *What are the advantages of using biogas?*
- 25. *What are the various routes by which transmission of human immunodeficiency virus takes place?*
- 26. *Biofortification may help in removing hidden hunger. How?*
- 27. a) *Octopus, cockroach and frog all have eyes. Can we group these animals together to establish a common evolutionary origin. Justify your answer.*
b) *Imprints of fossils tell us about evolution-How?*
- 28. a) *Why is euploidy considered to be advantageous to both plants and animals?*
b) *What is colostrum? How is milk production hormonally regulated?*
- 29. *Naming the endocrine gland , state its location and write any one in detail.*
- 30. *To tabulate the different functions of brain*
- 31. *What are the difference between artery and veins.*
- 32. *describe the structure of human ovum.*

PART - D

IV.ANSWER ALL THE QUESTIONS

3 X 7 = 21

- 33. a) *list out the parasitic adaptation of leech*
b) *write the importance forest*

kindly send me your key Answers to our email id - padasalai.net@gmail.com

or

i) Draw the structure of Transpiration

ii) explain the granulocyte.

34. a) With a neat labelled diagram explain the techniques involved in gene cloning.

b) Write the preventions of heart disease

Or

Explain with an example of the inheritance of dihybrid cross. How is it different from a monohybrid cross?

35. a) How nerve impulses are transferred from one neuron to next neuron?

b) states the functions of blood

or

a) What are the difference between file and folder.

b) Describe an experiment which demonstrates that growth stimulating hormone is produced at the tip of coleoptile.