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Previous Year Paper

Biology - 2006

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Fill In the Blanks

1. Fill in the blanks :

The process of purifying blood by means of an artificial kidney is called_____.

[Answer](#)

2. Fill in the blanks :

The onset of menstruation is called_____.

[Answer](#)

3. Fill in the blanks :

Sleep movements in many leguminous plants are known as_____.

[Answer](#)

4. Fill in the blanks :

The determination of the age of a tree by counting the annual rings is known as_____

[Answer](#)

5. Fill in the blanks :

The stage in the embryonic development which consists of a solid ball of cells is called_____.

[Answer](#)



Short Answer Type

6. Mention one significant difference between each of the following :

Calyptra and Calyptrogen

[Answer](#)

7. Mention one significant difference between each of the following :

Diffusion and Osmosis

[Answer](#)

8. Mention one significant difference between each of the following :

Holocrine and Apocrine glands

[Answer](#)

9. Mention one significant difference between each of the following :

Fertilisation and Insemination

[Answer](#)

10. Mention one significant difference between each of the following :

Xerophthalmia and Night blindness

[Answer](#)

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Name the gene of a cancer causing virus responsible for transformation.

[Answer](#) Study, Assignments, Solved Previous Year Papers . Questions and Answers. Free Forever.

12. Answer the following :

Name the vessel which supplies blood to the heart muscles.

[Answer](#)

13. Answer the following :

Which hormone keeps leaves green for a longer time ?

[Answer](#)

14. Answer the following :

Why is the shape of the right lung slightly different from that of the left lung ?

[Answer](#)

15. Answer the following :

What is phylogeny ?

[Answer](#)

16. Explain briefly :

Autotomy

[Answer](#)

17. Explain briefly :

Quiescent Centre

[Answer](#)

18. Explain briefly :

Photophosphorylation

[Answer](#)

19. Give reasons for the following :

Growth of long bones is bi-directional

[Answer](#)

20. Give reasons for the following :

Short day plants are called long night plants.

[Answer](#)

21. Give reasons for the following :

Biofertilisers are preferred over chemical fertilisers.

[Answer](#)

22. Give the contributions of the following scientists :

James Langley

Robert Hill

Alexander Fleming

Hugo de Vries

[Answer](#)

23. Write the full form of the following :
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24. Write the full form of the following :

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[Answer](#)

25. Write the full form of the following :

G-6-PD

[Answer](#)

26. Write the full form of the following :

DPD

[Answer](#)

27. Give one role and one deficiency symptom of each of the following in plants

(i) Nitrogen (ii) Calcium (iii) Boron

[Answer](#)

28. What is a reflex action ? Give two examples of conditioned reflexes. [Answer](#)

29. Define :

(i) Photoperiodism

(ii) Double fertilisation

[Answer](#)

30. Give the site of secretion and the function of each of the following hormones

(i) Antidiuretic hormone

(ii) Mineralocorticoids

(iii) Relaxin

(iv) Insulin

[Answer](#)

31. Define cardiac output. Describe the mechanism regulating the heart beat. [Answer](#)

32. Describe the events that take place from the time of entry of the human sperm into the ovum till fertilization is complete. [Answer](#)

33. Explain the following :

(i) Grafting

(ii) Vital capacity

(iii) Ureotelism

(iv) Epigeal germination.

[Answer](#)

34. Draw a labelled diagram of the transverse section of the cochlea of the human ear. [Answer](#)

35. What is seed dormancy ? How can it be broken artificially ? [Answer](#)

36. Give an account of the evidence which shows the common ancestry of man and apes. [Answer](#)

37. Describe the Oparin-Haldane theory of the origin of life. [Answer](#)

38. What are vestigial organs ? [Answer](#)

39. Explain hybridization. Describe the various techniques of hybridization in plants. [Answer](#)

40. Enumerate any three causes of mental illness. [Answer](#)

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41. Mention two differences between antibodies and interferons. [Answer](#)
42. Who was the originator of the theory of Natural Selection ? Explain the evolution of species by this theory. [Study, Assignments, Solved Previous Year Papers . Questions and Answers. Free Forever.](#)

[Answer](#)

43. Write the causative agent and the most important symptom of each of the following diseases :
- (i) Whooping cough
 - (ii) Tuberculosis
 - (iii) Measles
 - (iv) Malaria

[Answer](#)

44. Differentiate between :
- (i) Spontaneous and Induced Mutation.
 - (ii) Geographical and Reproductive Isolation.

[Answer](#)

45. What is addiction ? State any four reasons of drug addiction. [Answer](#)



Long Answer Type

46. Give an account of the activity of the cambium in the secondary growth of the stem. [Answer](#)
47. Define turgor pressure. Explain the significance of turgidity in plants. [Answer](#)
48. Draw a labelled diagram of the longitudinal section of a long bone [Answer](#)
49. Give an account of the digestion of carbohydrates in the human alimentary canal. [Answer](#)
50. Give a graphic outline of the biosynthetic phase of photosynthesis. [Answer](#)
51. Explain the development of an anther and the formation of microspores in angiosperms. [Answer](#)
52. State four causes and four consequences of population explosion.

[Answer](#)

53. What are the important changes in the evolution of the modern horse from the Eohippus (ancestral horse) ? [Answer](#)