



BIOLOGY

BOOKS - UNITED BOOK HOUSE

MODEL PAPER 2018

Exercise

1. The leafy tentacles of sundew plant bend and hold when they get in contact with an insect (protein). This is an example of-

A. Seismonasty

B. Thermonasty

C. Photonasty

D. Chemonasty

Answer:



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2. In case of woman, the Follicle Stimulating Hormone stimulates the Graffian Follicle of the Ovary to secrete the hormone, is-

A. TSH

B. ADH

C. Oestrogen

D. ACTH

Answer:



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3. Which one of the following is the correct reflex arc?

A. Receptor → Effector → Efferent
nerve → Nerve Centre → Afferent
nerve

B. Nerve Centre → Receptor → Afferent
nerve → Effector → Efferent nerve

C. Efferent nerve → Receptor →
Afferent nerve → Nerve Centre →
Effector

D. Receptor → Afferent nerve → Nerve
Centre → Efferent nerve → Effector.

Answer:



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4. In which stage of mitosis cell division, the nuclear membrane and nucleolus are seen to disappear-



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5. Which of the following is not a structural component of DNA -

A. Deoxyribose sugar

B. Uracil base

C. Thymine base

D. Phosphoric Acid.

Answer:



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6. Which one of the following statement is correct regarding sexual reproduction-

A. Haploid gamete formation is essential in sexual reproduction

B. Sexual reproduction depends only on mitosis

C. In sexual reproduction offspring could be produced from a single parental organism

D. The offspring produced in sexual reproduction are genetically identical with parental organism

Answer:



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7. Which one of the following is the genotypic ratio at F_2 generation of Mendel's monohybrid cross-

A. 1 : 2 : 1

B. 3 : 1

C. 9 : 3 : 3 : 1

D. 2 : 1 : 2

Answer:



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8. Which one of the following is not controlled by the autosomal gene of human-

- A. 1. Roller tongue
- B. 2. Haemophilia
- C. 3. Thalassaemia
- D. 4. Attached ear lobe.

Answer:



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9. Select what would be the genotypic ratio of F_2 generation of a monohybrid cross in case of incomplete dominance-

A. 3:1

B. 2:1:1

C. 9:3:3:1

D. 1:2:1

Answer:



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10. Which of the following changes did not occur during the course of evolution of horse-

A. Lengthening of limbs

B. Increase in the length and thickness of all digits in limbs.

C. Increase in the length and thickness of

only the third digit in limbs

D. Increase in size of the whole body.

Answer:



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11. According to the opinion of the scientists the prebiotic environment of the earth that led to the origin of the life was likje-

- A. Hot dilute soup in th sea water
- B. Cold dilute soup in the sea water
- C. Cold dilute soup in the river water
- D. Hot dilute soup in the ground water.

Answer:



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12. Which one of the following micrboes take part in nitrification-

A. 1.Nitrosomonas

B. 2.Azotobacter

C. 3.pseudomonas

D. 4.Thiobacillus.

Answer:



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13. An example of Ex-situ conservation is-

A. Sunderban Tiger Reserve

B. Corbet National Park

C. Nilgiri Biosphere Reserve

D. Cryopreservation,

Answer:



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14. Which of the following effect is the result of water pollution-

A. 1.Global warming

B. 2.Eutrophication

C. 3.Deafness

D. 4.Bronchitis

Answer:



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15. Due to deficiency of Iodine, the synthesis of _____ hormone is hampered.



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16. During embryonic development and growth in vertebrates _____ cell division takes place.



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17. The different _____ of Pea Plant may show same Phenotype.



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18. Homologous organs proved the ___ evolution.



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19. The name of one exotic species that affects the local biodiversity is _____.



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20. The fine droplets of smokes, ashes, dusts, pollen grains etc, suspended in air collectively called _____ which cause various lung disease.



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21. Decide whether the following statements are true or false

Hypothalamus helps to maintain body balance in human.



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22. Decide whether the following statement are true or false:

In DNA, Adenine is linked with Guanine by hydrogen bonds.



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23. Decide whether the following statements are true or false

In his monohybrid cross experiment, Mendel

obtained 75% pure tall pea plants in the first filial generation.



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24. Decide whether the following statement are true or false:

In Lamarck's opinion, organisms can acquire any particular inheritable physical trait according to their need.



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25. Decide whether the following statement are true or false:

Acid rain is caused by SO_2 and NO_2 gases formed due to air pollution.



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26. Decide whether the following statements are true or false

Auxin helps the seeds to germinate by breaking off dormancy.



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27. Choose the odd one and write it.

Dwarfism, Goiter, Thalassaemia, Diabetes Mellitus.



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28. What is the function of lens of eye?



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29. A pair of related terms is given below on the basis of the relationship in the first pair write the suitable word in the gap of second pair.

mitosis: Radicle: ___: Spore Mother cell.



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30. In case of guineaping whether the phenotype of the two genotype $bbRR$ and $bbRr$ is same?





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31. Write the phenotypic ratio obtained in the F_2 generation of Mendel's Dihybrid cross experiment?



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32. Mention on physiological feature of Sundari plant to deal with the strong salinity of water,.



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33. Among the following four terms one includes the other three. Find out that term and write is:

Overall knowledge regarding local biological resource, PBR, Traditional belief regarding local biological resource, Sustainable use of local biological resource.



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34. Name one endangered animal conserved at Singalila National Park.



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35. If the following incidents happen in daily life, there are some reflex takes place. Write two importances of this reflex.

When a foreign object enters the nose.



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36. If the following incidents happen in daily life, there are some reflex takes place. Write two importances of this reflex.

When a foreign object enters the nose.



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37. For correction of which defects in vision of eye spectacles of convex and concave lenses are used?



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38. List the names of the hormones related to following function :

Regulation of sugar level in blood



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39. List the names of the hormones related to following function :

Stimulation for the secretion of hormones from the Thyroid gland



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40. List the names of the hormones related to following function :

Causing the growth of Corpus Luteum and stimulating the secretion of Progesterone hormone in the female body



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41. List the names of the hormones related to following function :

Increasing blood pressure due to anxiety



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42. A resting animal attempts to move.
Mention four probable reasons behind it.



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43. Distinguish between autosome and sex chromosome of human based on the following feature:

Nature



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44. Distinguish between autosome and sex chromosome of human based on the following feature:

Number



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45. What are the processes of asexual reproduction in Spirogyra and Planaria?



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46. Mention two changes related to vision and bones at late adulthood or senescence phase of human development.



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47. With the help of a cross show how the sex of the child is determined in human being.



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48. One day students read an article in newspaper on Thalassemia and were very scared to know the fate of a thalassemic patient. Write what kind of measures they can take to eradicate this disease from the population.



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49. What gametes are produced from a hybrid yellow and round seeded pea plant ($YyRr$).





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50. Example of the vestigial organs of human.

Discuss two adaptive importance of air sac in pigeon.



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51. Write the names of one each vestigial organ present in Vertebral column and Alimentary canal in human body.



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52. Write in chronological sequences the names of four main fossil ancestors during the course of evolution of the horse.



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53. "Nitrogen cycle is affected due to human activities"- State two phenomena to justify it.



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54. What would be the environmental consequences as results of recurrent destruction of wetlands and depletion of quantity of agricultural lands?



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55. What are the harmful impacts sound pollution can exert on the ears and heart in human body?



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56. Write down the role of biodiversity for the following-

Production of food



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57. Write down the role of biodiversity for the following-

Preparation of medicine.



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58. Draw a neat diagram of reflex arc and label the following parts:

Receptor, Sensory nerve, Nerve centre, Motor nerve.



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59. Draw a neat diagram of human eukaryotic chromosome and label of the following parts-
Chromatid, Centromere, Telomere, Nucleolar organizer.



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