



BIOLOGY

BOOKS - UNITED BOOK HOUSE

GOVT. MODEL SCHOOL MEJIA PAPER

Exercise

1. Determine which of the following statement is true about glucagon hormone-

- A. glucagon converts glycogen of liver into glucose
- B. glucagon converts glucose into protein and lipid
- C. glucagon help in the production of keton body by the oxidation of lipid
- D. glucagon helps in the oxidation of glucose

Answer:



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2. Match the left column with that of right column and select the correct option-

Left column	Right column
A Ganglion	(i) Controls heart beat and sweating
B Medulla Oblongata	(ii) Reflex action
C GSE	(iii) Origin of nerve
D Sneezing	(iv) Protects from electric shock

A. A-(ii),B-(iii),C-(i),D-(iv)

B. A-(i),B-(iv),C-(ii),D-(iii)

C. A-(iii),B-(i),C-(iv),D-(ii)

D. A-(iv),B-(ii),C-(i),D-(iii)

Answer:



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3. Decide which of the following pair is correct-

A. Sclera-Inhibits reflection of scattered light

B. Choroid protects retina

C. Iris-Acts as refractive medium

D. Aqueous humour-Forms image

Answer:



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4. Determine which of the following is true about Anaphase-

- A. Spirialization and condensation of chromosome
- B. Arrangement of chromosome along the equatorial plate
- C. Destruction of spindle fibre

D. Division of centrosome and formation of daughter chromosome

Answer:



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5. Select which of the following is not an asexual reproduction-

A. Fragmentation of *Spirongyra*

B. Regeneration of *Planaria*

C. Grafting of guava

D. Budding in Hydra

Answer:



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6. Identify which of the following pair is correct with respect to late adulthood phase of human development-

- A. Late Adulthood- Eye sight and hearing power becomes strong
- B. Late Adulthood - Elasticity of skin increase
- C. Late Adulthood - Bones become porous
- D. Late Adulthood- Smelling power increases

Answer:



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7. Decide the total number of Contrasting characters of Pea plants chosen by Mendel are-

A. 9 pairs

B. 7 pairs

C. 6 pairs

D. 8 pairs

Answer:



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8. Calculate how many types of gametes are formed from Guinea pig having genotype Bbrr-

A. 2

B. 1

C. 3

D. 4

Answer:



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9. Determine the number of 'X' chromosome in the germ mother cell of human male-

A. 0

B. 1

C. 4

D. 2

Answer:



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10. Decide which of the following pair is not correct-

A. Coacervate-origin of life

B. Vestigial organ- Coccyx

C. Darwin - Inheritance of Acquired Character

D. homologous organ - Convergent Evolution

Answer:





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11. Identify the organ which has similarity in origin and structure is called-

- A. Analogous organ
- B. Homologous organ
- C. Inactive organ
- D. Vestigial organ

Answer:



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12. Identify the animal in whom red gland helps in adaptation-

A. Fish

B. Human

C. Toad

D. Birds

Answer:



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13. Decide which of the following statement is true about sound pollution

A. Discharge of Agricultural wastes cause
Sound Pollution

B. Discharge of greenhouse gases causes
Sound Pollution

C. Discharge of non biodegradable
insecticide causes Sound Pollution

D. Noises in Rail Station and Market places

cause Sound pollution

Answer:



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14. Decide which of the following is an example of In-Situ conservation-

A. Sanctuary

B. Botanical garden

C. Cryopreservation

D. Zoological garden

Answer:



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15. Determine which one of the following microbes take part in nitrification -

A. Nitrosomonas

B. Azotobacter

C. Pseudomonas

D. Thiobacillus

Answer:



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16. The type of movement in tulip is _____



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17. Thymine and cytosine are types of __ bases of DNA.



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18. _____ genotype denotes guineaping with white coloured and smooth hair.



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19. Small but continuous changes called _____ are responsible for the origin of species.



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



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22. Decide whether the following statements are true or false

Auxin helps the seeds to germinate by breaking off dormancy.



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23. Decide whether the following statements are true or false

Adenine and Thymine have three hydrogen bonds between them.



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24. 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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25. Decide whether the following statements are true or false

The modern horse its Equus.



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26. Decide whether the following statements are true or false

SO_2 and NO_2 are not green house gases.



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27. Decide whether the following statements are true or false

Hypothalamus helps to maintain body balance in human.



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28. Match the words in column A with those which are most appropriate in Column B and rewrite the correct pair mentioning the serial

numbers of both column

Column A	Column B
2.13 Cornea	(a) Oval shaped RBC
2.14 Shimul	(b) Colour blindness
2.15 Deuteronomia	(c) Ornithophily
2.16 Camel	(d) Refractory medium
2.17 Azotobacter	(e) Crossing over
2.18 Meiosis - I	(f) Nitrogen fixation
	(g) Minamata



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29. Choose the odd one and write it: coccygeal, Cerebrum, Cerebellum, Medulla Oblongata



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30. Name one neurotransmitter,



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31. 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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32. Which chromosome is responsible to from a male child?



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



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34. Which reactants Miller and Urey selected for their experiment to prove Chemical origin of Life?



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35. Among the following four terms one includes the other three. Find it our write it:
Rhododedron, Black bear, Eastern Himalaya Hotspot, Red Panda.



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36. What type of effect is observed on water resources by ever-increasing human population?



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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. Explain how plants get benefited from nastic movement.



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39. Discuss the features of bimocular vision which are not seen in monocular vision.



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40. "Hormones regulates some vital functions essential for the existance of life"-List such four functions.



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41. Distinguish between autosomes and sex-chromosomes of human based on nature and number.



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42. Distinguish between autosomes and sex-chromosomes of human based on nature and number.



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43. Distinguish between mitosis and meiosis based on the following feature as directed-
Nature of chromosomere division



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44. Distinguish between mitotic and meiotic cell divisions in animals on the basis of following feature: -

Number of cells produced



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45. Identify the role of centrosome during cell division-



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



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47. Explain the Mendel's law about segregation.



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48. You want to perform experiments following the steps as Mendel performed. You selected a plant other than Pea Plant. What characters do suit the plant for this experiment?



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





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



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51. Give four causes of biodiversity depletion.(
No need of description.)



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



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



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54. Analyse how plants and animals are equally responsible for causing asthma.



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55. Mention the roles of biodiversity in the following two aspects in the progress of human Civilization: -

Maintenance of climate



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56. Mention the roles of biodiversity in the following two aspects in the progress of human Civilization: -

Maintaenance of stability ecosystem.



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57. Draw a neat diagram of a reflex arc and lable the following parts:

Receptor, Effector, Nerved centre, Motor nerver



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58. Draw a neat diagram of an eukaryotic chromosome and label the following parts:

Chromatid, Primary constriction, Telomere, Satellite



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59. State three differences between mitosis of plant cell and mitosis of animal cell. What

might happen if normal control at different points of a cell cycle is lost?



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60. What is biodiversity



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61. Define Phenotype and Genotype.



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62. Explain why Mendel was successful in performing his hereditary experiments. Give five reasons.



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63. How the special feature of RBC in camels is related to their ability to withstand extreme loss of water?



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64. What do you mean by Natural Selection as proposed by Darwin? Explain why the following two organs are considered as adaptive organ :

Air Sac



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65. What is biological magnification. How sound effects us?



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66. In upcoming days cryopreservation would be a determining factor for the conservation practices- Analyse how it would be possible. Evaluate how JFM is so crucial for restoration of forest ecosystem.



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67. Draw the word diagram of Nitrogen cycle.



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68. Analyse the type of information stored in PBR which can be helpful to conserve depleting biodiversity in a particular area. "Global Warming is posing threats to the existence of Sundarbans"- Justify the statements.



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