



BIOLOGY

BOOKS - UNITED BOOK HOUSE

GOVT. MODEL SCHOOL MEJIA PAPER



- 1. Determine which of the folloiwng 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:

2. Match the left column with that of right

column and select the correct option-

	Left column .	Right column
	Ganglion 4	(i) Controls heart beat and sweating
→. <u>,</u> B	Medulla Oblongata	(ii) Reflex action
C		(iii) Origin of nerve
_ D	Sneezing , 11	(iv) Protects from electric shock

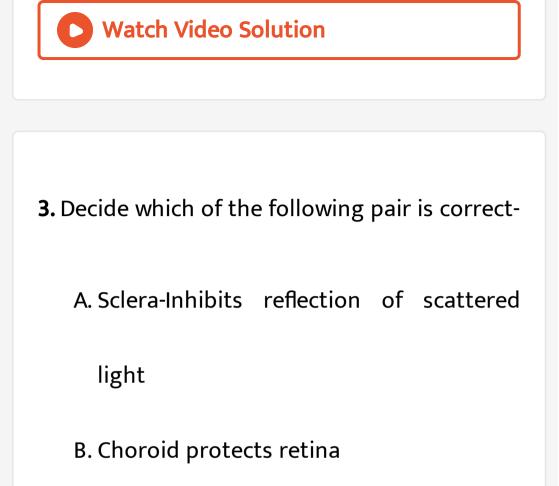
A. A-(ii),B-(iii),C-(i),D-(iv)

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:



- C. Iris-Acts as refractive medium
- D. Aqueous humour-Forms image

Answer:





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

A. Spriralization 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:



5. Selet 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:



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

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

increases

Answer:

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

A. 9 pairs

B. 7 pairs

C. 6 pairs

D. 8 pairs

Answer:

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

A. 2

B. 1

C. 3

D. 4

Answer:

9. Determine the number of 'X' chromosome in

the germ mother cell of human male-

A. 0

B. 1

C. 4

D. 2

Answer:



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

- A. Coacervate-origin of life
- B. Vestigeal organ- Coccyx
- C. Drawin Inheritance of Acquired

Character

D. homologous organ - Convergent

Evolution







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:

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

A. Fish

B. Human

C. Toad

D. Birds

Answer:

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:



14. Decide which of the following is an example

of In-Situ conservation-

A. Sanctuary

B. Botanical garden

C. Cryopreservation

D. Zoological garden

Answer:



15. Determine which one of the following

micrboes 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_____

17. Thymine and cytosine are types of __ bases

of DNA.

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18. ____ genotype denotes guineaping with

white coloured and smooth hair.

19. Small but continous changes called___

are responsible for the orgin of species.

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20. The fine d roplets os smokes, ashes, dusts,

pollen grains etc, suspended in air collectively

called____which cause various lung disease.



21. The name of one exotic species that affects

the local biodiversity is _____.

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22. Decide whether the following statementsare true or falseAuxin helps the seeds to germinate by

breaking off dormancy.

23. Decide whether the following statements

are true or false

Adenine and Thymine have three hydrogen

bonds between them.



24. Decide whether the following statements are true or falseIn his monohybrid cross experiment, Mendel obtained 75% pure tall pea plants in the first filial generation.



25. Decide whether the following statements

are true or false

The modern horse its Equus.



26. Decide whether the following statements

are true or false

 SO_2 and NO_2 are not green house gases.





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	1111
2.13 Cornea 2.14 Shimul 2.15 Deuteronopia	 (a) Oval shaped RBC (b) Colour blindness (c) Ornithophily (d) Refrectory medium 	· · · · · · · · · · · ·
2.17 Azotobacter 2.18 Meiosis - I	(e) Crössing over (f) Nitrogen fixation (g) Minamata	۰۱۰ مارین



29. Choose the odd one and write it: coccygeal,

Cerebrum, Cerebellum, Medulla Oblongata



30. Name one neurotransmitter.,



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.



32. Which chromosome is responsible to from

a male child?



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

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



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

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



37. For correction of which defects in vision of

eye spectacles of convex and concave lenses

are useD?

38. Explain how plants get benefited from nastic movement.Watch Video Solution

39. Discuss the features of bimocular vision

which are not seen in monoclular vision.



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



41. Distinguish between autosomes and sexchromosomes of human based on nature and

number.



42. Distinguish between autosomes and sexchromosomes of human based on nature and number.



43. Distinguish between mitosis and meiosis based on the following feature as directed-

Nature of chromosomere division

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

Number of cells produced

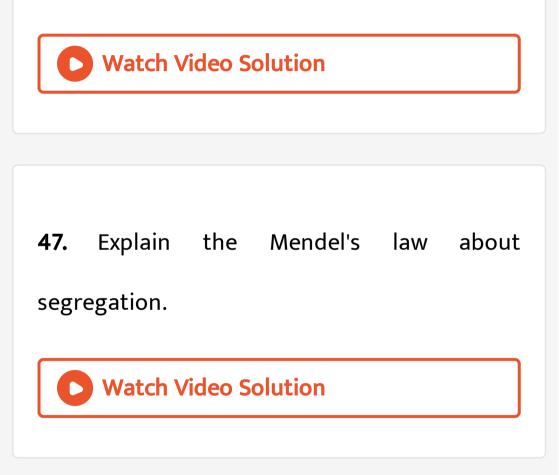


45. Identify the role of centrosome during cell

division-

46. With the help of a cross show how the sex

of the child is determined in human being.



48. You want to perform experiments folloiwng the steps as Mendel performed. You selected a plant other than Pea Pleant. 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.



50. Write the names of one each vestigeal 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.)

52. "Nitrogen cycle is affected dur 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?

54. Analyse how plants and animals are equally

responsible for causing asthama.

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

Maintenance of climate

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

Maintaenance of stability ecosystem.



57. Draw a neat diagram of a reflex arc and

lable the following parts:

Receptor, Effector, Nerved centre, Motor

nerver

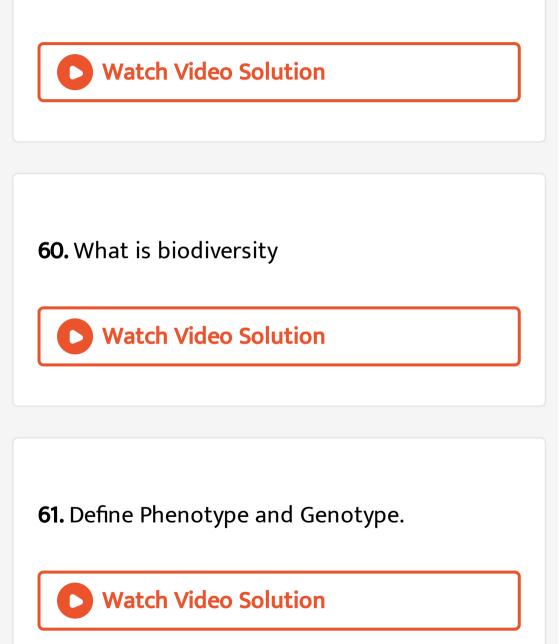
58. Draw a neat diagram of an eukaryotic chromosome and label the following parts: Chromatid, Primary constriction, Telomere, Satellite

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

might happen if normal contro at different

points of a cell cycle is lost?



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



63. How the special feature of RBC in camels is

related to there ability to withstand extreeme

loss of water?

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?

66. In upcoming days cryopreservation would be a determing 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.

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.