



BIOLOGY

BOOKS - UNITED BOOK HOUSE

RISHRA GIRLS' SCHOOL PAPER

EXERCISE

1. The leaves of mimosa plant drops down if touched. Choose from the following which incident is related with this-

- A. Chemonastic movement
- B. Thermonastic movement
- C. Photonastic movement
- D. Seismonastic movement



2. Read the following sentences and state which is not correct-

A. 1.Estrogen protect pregnancy

B. 2. Testosterone release from the testes of

males

C. 3.ADH and oxytocine release from the

hypothalamus in human

D. 4.Glucagon helps in gluconeogenesis.



3. From the following which functions are regulated by medulla oblongata-

- A. 1.Hunger, sleep and temperature control
- B. 2.Control of growth and emotion
- C. 3. Vomiting, heartbeat and respiration

rate control

D. 4.Balance and stretch of muscle control



4. What role do ribosomes play during cell division?

- A. 1.helps to form microtubule
- B. 2.Form nuclear membrane in telophase

stage

C. 3. Provides the required energy for cell

division

D. 4.Helps in chromosome formation



5. Which of the following pair is true?

- A. Cytosine & uracil Purine base
- B. Adenine & Guanine Pyrimidine base
- C. Adenine & Guanine Purine base
- D. Thymine & cytosine Purine base



6. Following a moving object, muscle elasticity decreases, the reproductive organs and reproductive glands attain perfection, Milk

teeth fall off and,become permanent teeth, The eye sight is reduced, Bones become fragile.-Determine how many of the above characters indicate senescence stage-

A. 1)5

B. 2)3

C. 3)4

D. 4)6



7. Identify the phenotypical ratio of F_2 generation of Mendel's dihybird cross-

A. 1) 9:1:1

B. 2) 9: 3: 3: 1

C. 3) 3:9:3:1

D. 4) 1:3:3:9



8. Select the normal chromosome number in

normal male-

A. 44 AA+XX

B. 44AA+XO

C. 45 AA+XY

D. 44 AA+XY



9. bbrr, BBRr, Bbrr, bbRR, BbRr- Determine which genotype show black & smooth phenotype in Guineapig-

A. 1.bbrr, BbRr

B. 2.BBRr, BbRr

C. 3.BBrr, Bbrr

D. 4.bbRR, BBrr



10. Determine which of the follwing pair is correct regarding the vestigeal organ-

A. Fish-Gill

- B. Human-Apendix
- C. Pegion-Wing
- D. Guineapig-Cecum



11. Identify which of the following features indicates the camel's excess water carrying capacity-

A. 1.RBC can withstand osmotic pressure
changes due to the shape of the sickel
B. 2.RBC can withstand osmotic pressure
changes due to the shape of Oval
C. 3.RBC can withstand osmotic pressure
changes due to its shape like dumble

D. 4.RBC can withstand osmotic pressure

changes due to its round shape



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12. Determine which of the following is not correct regarding Darwinian doctrine-

A. Darwin-Inheritance of acquired

characters

B. Darwin - struggle for existance

C. Darwin-Natural Selection

D. Darwin - Origin of variation





13. Which of the following is the N_2 fixing symbiotic bacteria present in the root-

A. Rhizobium

- B. Clostridium
- C. Bacillus mycoides

D. Nitrobactor



14. Which of the following physical problem is

related with SPM and air pollution-

A. Typhoid

B. Hepatitis

C. Diarrhea

D. Bronchitis



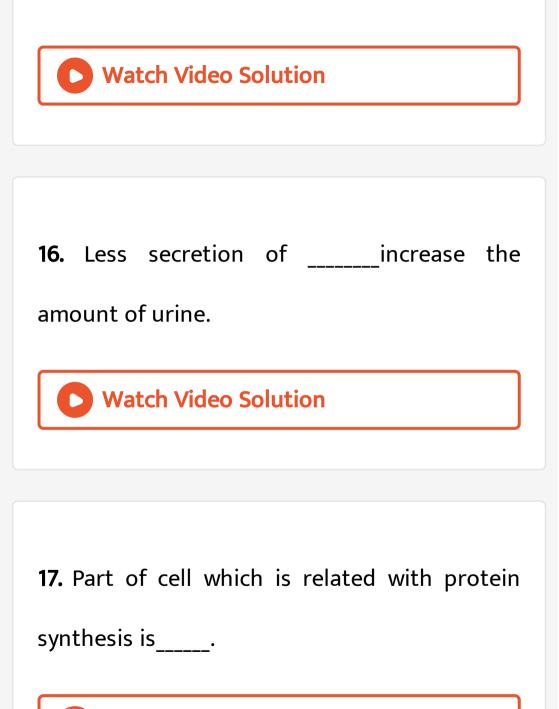
15. Captive Breeding and Hatching determine which of the following animals is associated with conservation efforts-

A. Red panda

B. Lion

C. Crocodile

D. One horned rhino



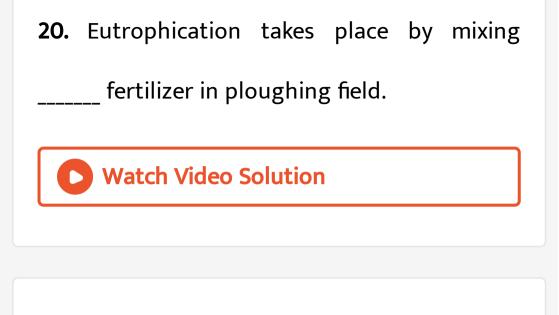


18. As pea flower is _____ it is possible to perform self pollination as well as cross pollination.

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19. An amino acid produced in Miller & Urey's

experiment is_____.



21. _____hot-spot is in Meghalaya and

Arunachal Pradesh in north-east India.

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22. Paramecium move through cilia.



23. Tumour form due to controlled and quick cell division.



24. Decide whether the following statements

are true or false:

Different phenotypes carry same genotype.



25. The book written by Lamarck is Philosophie

zoologique.

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26. Main objective of the JFM is to prevent the

soil erosion and restoration of forest.

27. The bunch of nurone surrounded by the connective tissue peritonium and blood vessel is called Nerve--true or false?



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

serial no. of both column :

Cálumn A	Column B
2.15 Genetic councelling	 (a) Reconstruction of nuclear fibre (b) Determine the presence of disease carring gene (c) Mango (d) Destruction of wetland (e) Paddy (f) Naturally prepared fossilised state of organism (g) Entry point of cerebrum



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29. Choose the odd one and write it:

Myelin sheath, Schwann cell, Nissl granules,

Neurolemma.



30. State an opposite function of sympathetic

and parasympathetic nerve.



31. Given below a pair of related terms, Write suitable word in the gap of second pair, following the relationship in the first pair.

44: Autosome::____sex chromosome.

32. Write the types of gamets form from a

heterogemetic male.



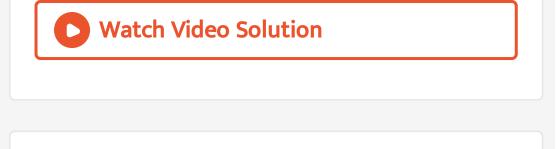
33. Why the O_2 carring capacity is less than

others in thalassemic people?

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34. How flipper of whale and horse forelimb is

related?



35. Among the followig four three include the othe one. Find out that term and write its. Zoo, Ex-situ conservation, Botanical garden, Cryopreservation.

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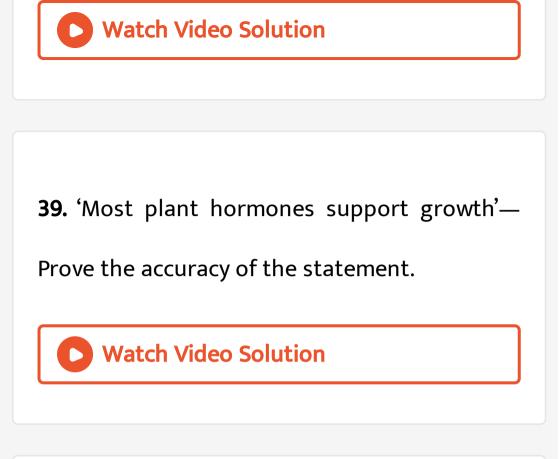
36. Name an organism except animal stool, pollen, dust which is responsible for asthama



37. Explain how the ciliary muscle refines the lens when viewing distant objects and mearby objects.

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38. In case of a new born baby, write lifechanging reflex using a table.



40. Relate neurons with neuroglia.

41. Analyze how interphase of cell cycle relate

with synthesis process?

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42. Explain flowering plants meiosis cell

division



43. Write down the differences between DNA

and RNA based on the following points-

No. of helix



44. Write down the differences between DNA

and RNA based on the following points-

Presence of carbohydrate

45. Write down the differences between DNA

and RNA based on the following points-

Presence of base.



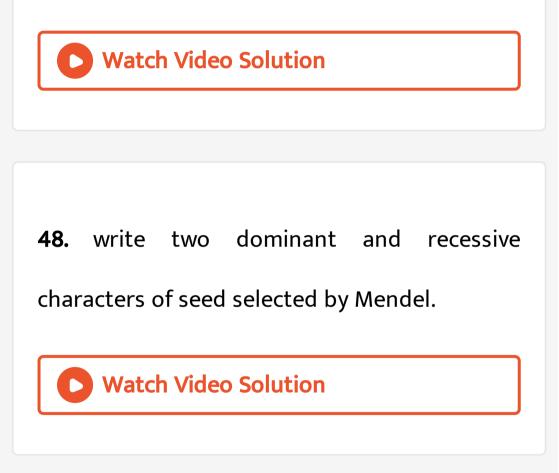
46. Differ DNA and RNA with following points -

Relation with genetics

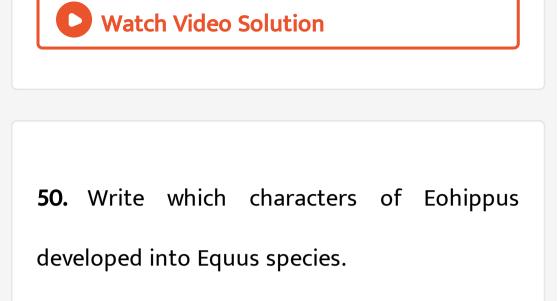


47. Male are more prone to diseases that

carried by X chromosome'-Analyze this.



49. Explain-Allele, Hybridization.



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51. Changes in the number of cells have changed the way for the expression of vertebrates' -Prove the statement reasonably.

52. Bio-magnification is extemely dangerous for the highest consumer'- Judge the Statement based on recent incidents of biodiversity loss.

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53. How can you make the project worth while

when you are assigned to a JFM project.

54. How sound pollution & reproductive health are related?
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55. Agricultural land is ruled out as population increases'-Access how biodiversity can be affected by it.

56. Draw a neat diagram of the eyeball of human and label the following parts(a) Retina (b) Vitrious humour (c) Optic nerve

(d) Yellow spot.

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57. Draw a neat diagram of metaphase stage of mitotic cell division and label the following' parts—

(a) Metaphase plate (b) Spindle fibre(c)

Centromere (d) Polar region



58. Relate gene, DNA & Chromosome.How

micropropagation is done?

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59. Explain the characters of meiosis asdecreasing the chromosome number.



60. Write do.wn the results of the given cross-

Tt&Tt, TT & Tt, Tt & tt. Analyze the genotype

of the parents of a colour blind friend.



61. Differences in characteristics of the same organ are noted in human populations. Write two properties you know of like this. How can

you eliminate the social misconception about

determining the gender of a child?

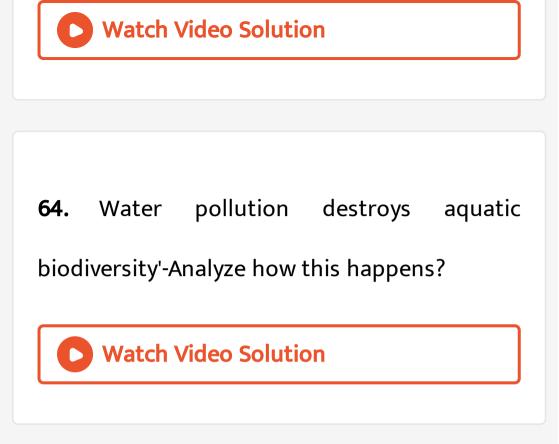


62. Assess what can happen in a forest if the

intensity of inter species struggle is reduced.

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63. Provide analogy of the work of swim bladder of rohufish and airsacs of pigeon.



65. What safety rules should be adopted for endangered animals if they declare a jungle as sanctuary?

66. If you are making PBR in Panchayet or Municipal area, what data will you collect? Those who are living adjacent to industries, what pollution they are facing?

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67. One of the problems with the growing population is the destruction of forests. Discuss what could be the result of such deforestation recently. Evaluate the

imporatance of biodiversity in preventing

disease in human life.

