



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



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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 oxytocin release from the hypothalamus in human

D. 4. Glucagon helps in gluconeogenesis.



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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



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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



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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



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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



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

A. 1) 9: 1: 1

B. 2) 9: 3: 3: 1

C. 3) 3: 9: 3: 1

D. 4) 1: 3: 3: 9



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8. Select the normal chromosome number in normal male-

A. 44 AA+XX

B. 44AA+XO

C. 45 AA+XY

D. 44 AA+XY



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

A. 1. $bbrr$, $BbRr$

B. 2. $BBRr$, $BbRr$

C. 3. $BBrr$, $Bbrr$

D. 4. $bbRR$, $BBrr$



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10. Determine which of the following pair is correct regarding the vestigial organ-

A. Fish-Gill

B. Human-Apendix

C. Pегion-Wing

D. Guineapig-Cecum



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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 existence

C. Darwin-Natural Selection

D. Darwin - Origin of variation



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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



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14. Which of the following physical problem is related with SPM and air pollution-

A. Typhoid

B. Hepatitis

C. Diarrhea

D. Bronchitis



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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



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16. Less secretion of _____ increase the amount of urine.



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17. Part of cell which is related with protein synthesis is _____.



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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_____.



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20. Eutrophication takes place by mixing _____ fertilizer in ploughing field.



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21. _____ hot-spot is in Meghalaya and Arunachal Pradesh in north-east India.



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22. Paramecium move through cilia.



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



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

Different phenotypes carry same genotype.



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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.



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



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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 :

Column A	Column B
2.13 Thalamus	(a) Reconstruction of nuclear fibre
2.14 Eutomophilic flower	(b) Determine the presence of disease carrying gene
2.15 Genetic counselling	(c) Mango
2.16 Fossil	(d) Destruction of wetland
2.17 Increasing population growth	(e) Paddy
2.18 Telophase	(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.



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30. State an opposite function of sympathetic and parasympathetic nerve.



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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.



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32. Write the types of gametes formed from a heterozygous male.



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33. Why is the O_2 carrying capacity less than others in thalassemic people?



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34. How is the flipper of a whale and the horse forelimb related?



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35. Among the following four three include the other 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 asthma

in human.



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



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38. In case of a new born baby, write life-changing reflex using a table.



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39. ‘Most plant hormones support growth’—

Prove the accuracy of the statement.



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40. Relate neurons with neuroglia.



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41. Analyze how interphase of cell cycle relate with synthesis process?



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42. Explain flowering plants meiosis cell division



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43. Write down the differences between DNA and RNA based on the following points-

No. of helix



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44. Write down the differences between DNA and RNA based on the following points-

Presence of carbohydrate



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45. Write down the differences between DNA and RNA based on the following points-

Presence of base.



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46. Differ DNA and RNA with following points -

Relation with genetics



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47. Male are more prone to diseases that carried by X chromosome'-Analyze this.



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48. write two dominant and recessive characters of seed selected by Mendel.



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49. Explain-Allele, Hybridization.



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50. Write which characters of Eohippus developed into Equus species.



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



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52. Bio-magnification is extremely 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.



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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.



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56. Draw a neat diagram of the eyeball of human and label the following parts

- (a) Retina (b) Vitreous 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



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58. Relate gene, DNA & Chromosome. How micropropagation is done?



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59. Explain the characters of meiosis as decreasing the chromosome number.



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60. Write down the results of the given cross-
 $Tt \times Tt$, $TT \times Tt$, $Tt \times tt$. Analyze the genotype
of the parents of a colour blind friend.



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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?



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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.



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64. Water pollution destroys aquatic biodiversity'-Analyze how this happens?



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



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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

importance of biodiversity in preventing disease in human life.



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