



# BIOLOGY

## BOOKS - UNITED BOOK HOUSE

### GHORANASH HIGH SCHOOL PAPER

#### Exercise

1. While travelling in Kashmir you noticed a  
flower with nastic movement with

temperature variation. Set the name of the flower and the movement-

A. Sunflower-Thermonasty

B. Rose-Seismonasty

C. Tulip-photonasty

D. Tulip-Thermonasty

**Answer:**



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2. Amount of glucose in body reduced if fasting of whole day takes place. Which hormone normalize the glucose level name it-

A. Insulin

B. Adrenaline

C. Estrogen

D. Testosterone

**Answer:**



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3. Choose the correct alternative by assigning party to the Column A with B-

Column-A	Column-B
A. Optic nerve	(i) mixed nerve
B. Oculomotor nerve	(ii) sensory nerve
C. Facial nerve	(iii) mixed nerve
D. Vagus nerve	(iv) motor nerve



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4. Choose the incorrect statement after reading the following information about micropropagation-

- A. In micropropagation there is no need to add extra nutrients and hormone
- B. In micropropagation dividing tissue or cell is used
- C. It is an asexual process with which the offsprings become disease free and can withstand harsh condition
- D. It is an asexual process with which desirable plants can be generated

**Answer:**



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5. Which of the following statements are correct regarding the differences between mitosis & meiosis-

Characters	Mitosis	Meiosis
(i) happening site	Spore mother cell & gamet mother cell	Body mother cell
(ii) Number of chromosomal	One	two
Conversion of Forelimb"		
(iii) Number of forming cell	Four	two
(iv) Significance	Do mutation in organism	Growth, Compensation, regeneration is done



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6. Identify which following statement is not correct about asxual reproduction-

A. Two opposite sex individuals are required

B. This reproduction is done with spore formation and cell division except gamet formation

C. This reproduction depends upon mitosis

D. In this reproduction offsprings are exactly same as parental generation

**Answer:**



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7. Choose the recessive character of pea plant from the following:

A. Curly seed

B. Yellow coloured seed



C. Violet coloured flower

D. Axial bud

**Answer:**



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8. If two hybrid tall pea plant is crossed then what will be the percentage of pure tall plant in  $F_1$  generation?

A. 0.25

B. 0.5

C. 0.75

D. 1

**Answer:**



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**9.** Select an autosomal recessive genetical hereditary disease-

A. Haemophilia

B. Thalassemia

C. Colour blindness

D. Night blindness

**Answer:**



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**10.** Decide which character suits eohippus-

A. Three digits in two legs

B. Two legs with three digits but the middle finger is with hoof and long structure

C. Fore limb with four and hind limb with five digits

D. finger with hoof present in both legs

**Answer:**



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11. Who introduced the Quasarvet theory-

A. Darwin

B. Fox

C. Miller & Urey

D. Operin

**Answer:**



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12. Which is not a character of homologous organ-

A. Structure-Outer structure is different  
inner structure is same

B. Evolution-Indicate convergent evolution

C. Function-Functions of homologous  
organs are different

D. Origin-Homologous organs originate in  
same way

**Answer:**



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**13.** Which statement is correct regarding eutrophication-

A. Eutrophication takes place if heavy metal

increase in water

B. Eutrophication takes place if number of

highest consumer increases

C. Eutrophication happens if number of microbes increase in water

D. Eutrophication occurs when the amount of dissolved nutrients

**Answer:**



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**14.** Bethuadahari, Jaldapara, Nandadebi, Manas, Gorumara, Chapramari-within these



select the numbers of sanctuary, national forest, Biosphere reserve

A. 2,2,2

B. 4,1,1

C. 2,3,1

D. 1,2,3

**Answer:**



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15. Select the proper statement about cryopreservation-

A. Sperm and ovum is conserved in gaseous nitrogen at  $196^{\circ} C$  temperature

B. Fruit, leaf or root conserved in gaseous hydrogen at  $-196^{\circ} C$  temperature

C. Animal sperm, ovum or seed of plants is conserved in liquid nitrogen at  $- 196^{\circ} C$  temperature

D. Tissue, sperm, ovum or zygote is conserved in liquid nitrogen at-  $196^{\circ} F$

**Answer:**



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**16.** Growth of internode of the short node plant genetically is done by \_\_\_ hormone.



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17. In \_\_\_\_phase of mitotic cell division daughter chromosomes in same number move towards each pole,.



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18. Position of gene on chromosome is called



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19. \_\_\_\_\_ gland is present in the frontal cavity of swim bladder.



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20. An inflammable greenhouse gas form in the stomach of cattle is\_\_\_\_\_.



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21. An endangered mammal animal present in the eastern-himalayan hot-spot is \_\_\_\_\_.



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

Myopia is corrected with convex lens.



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**23.** Decide whether the following statements are true or false:

After reaching in adolescence period boys and girls become imaginative and moody.



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

If any one from bride or groom is a

thalassemia carrier then he or she should marry another thalassemia carrying person.



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**25.** Decide whether the following statements are true or false:

According to Darwin small successive changes are responsible for the origin of several species.



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**26.** Decide whether the following statements are true or false:

First cell was created in the river water.



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**27.** Decide whether the following statements are true or false:

Wood shaw mill and cement factory are one of the main source of SPM.



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**28.** Choose the odd one and write it-

Biceps, Piriformis, Myotome, Quadriceps.



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**29.** What is genotype explain with example.



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**30.** Given below a pair of related terms. Write suitable word in the gap of second pair

following the relationship in the first pair.

Fragmentation:

Spyrogaira::

Regeneration: \_\_\_\_\_



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**31.** Write two possible genotype of round and yellow pea seed.



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**32.** Write difference between the ratio-9:3:3:1 & 1:2:1.



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**33.** What is the relation between struggle for life and natural selection.



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**34.** Among the following four terms three include the other one. Find out and write that term. Rafflesia, Nicobar area, Coral, Sundaland hot-spot.



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**35.** Give an example of aquatic biodiversity loss due to overuse.



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**36.** Describe the role of synthetic hormone?

What is the role of hormone as messenger and regulator?



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**37.** What is the relation between neurone and nerve?



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**38.** How adrenaline hormone ready our body for emergency?



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**39.** Show with a line diagram how the change in accommodation in your eye happens for seeing short distance object and long distance object.



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**40.** How chromosome number of a species become constant in meiosis cell division?



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**41.** Write one merit and one demerit of self pollination.



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**42.** How micro propagation takes place?







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**43.** Name two organs that become detected by thalassemia.



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**44.** What is the relation between phenotype and genotype?



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45. If two round and curly seed pea plants are crossed then what will be the phenotypes and their ratio in  $F_1$  generation in Mendel's monohybrid cross?



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46. name the reactants and produced organic compounds that forms in Miller & Urey's experiment.



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**47.** Write in sequence the names of four main fossils ancestors during the course of evolution of the horse with major changes in their locomotory organ,



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**48.** Evaluate what Darwin explains 'fittest' in survival of the fittest?



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**49.** What incidents take place in nitrogen cycle?



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**50.** Write one cause and one symptom of lung cancer.



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**51.** Give two example- Increasing human population causes loss of biodiversity.



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**52.** What is PBR in biodiversity.



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**53.** Draw a neat diagram of the cross section of human eye and label the following parts:

Lens, Sclera, Retina, Vitrious humour.



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**54.** Draw a neat diagram of an ideal eukaryotic chromosome and label the following parts:

Centromere, Secondary constriction, telomere, satellite.



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**55.** Show with the diagram- Fertilization of flowering plant. How DNA is formed from various chemical compounds?



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**56.** Write down the name of four type of chromosome in the basis of the position of centromere.



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**57.** Explain with a checkerboard' why incomplete dominance is an exception of Medelism.



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**58.** Show with a checker board the possibility of haemophilia in son and daughter if a normal man marry a normal but carrier female. Why colour blindness is found largely in male?



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**59.** Discuss how homologous organ and analogous organ help in evolution. How chimpanzee show problem solving ability?



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**60.** State two importance of airsac in pigeon.



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**61.** State two harmful effects of water pollution on human health.



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**62.** Analyze the role of biodiversity based on the following subject in human civilization

development :Food production

Why cryopreservation is important in biodiversity conservation?



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**63.** Write down the role of biodiversity for the following-

Preparation of medicine.



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

Maintenance of climate



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**65.** Write differences between ex-situ and in-situ conservation. What are measures taken to conserve Red Panda?



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**66.** Write down three functions of JFM in the recovery of the ecosystem. Name the two tiger projects and their locations of India.



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