



# BIOLOGY

**BOOKS - UNITED BOOK HOUSE**

**ETORE SANTAL SIKSHANIKETA PAPER**

## Exercise

1. Which statement is incorrect about nastic movement-

- A. The movement of curvature of plant is controlled by the amount of stimulation
- B. The overall location of plant does not change
- C. It is a type in inflation driven movement
- D. There is effect of auxin hormone

**Answer:**



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2. Choose the correct statement about hypermetropia -

A. In this case the nearest object can be clearly seen

B. The lens is more convex than normal

C. Due to the less convex of lens the image is made behind retina

D. Due to enlargement of eye ball the image is made behind retina

**Answer:**



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3. Which of the following is not a gonadal hormones? 1.adrenaline 2.Testostrerone 3.Progesterone 4.Oestrogen

A. Menstrual cycle is the effect of it

B. Growth of uterus, zygote, placenta, breast take place

C. Menstrual cycle is stopped during pregnancy

D. Expand of vaginal pathway and relaxation of pelvic girdle happen

**Answer:**



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4. In which phase in mitosis the chromosomes reach equatorial region of cells?

A. Prophase

B. Metaphase

C. Anapliase

D. Telophase

**Answer:**



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5. After double fertilization the definitive nucleus transfer into-

A. Pistil

B. Synergids

C. Crop nucleus

D. Nucellus

**Answer:**



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6. In Mendel's digybrid cross the fractin of yellow and round phenotype pea plant in  $F_2$  generation will be-

A.  $\frac{1}{16}$  th

B.  $\frac{12}{16}$  th

C.  $\frac{3}{16}$  th

D.  $\frac{9}{16}$  th

**Answer:**



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7. Hemophilia disease in men is very common because-



A. X linked dominant character

B. X linked recessive character

C. Y linked dominant character

D. Autosomal character

**Answer:**



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**8.** In which case the phenotype and genotype ratio of  $F_2$  generation will be 1:2:1-

A. Incomplete dominance

B. Co-dominance

C. Opposite dominance

D. Complete dominance

**Answer:**



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**9.** The biochemical theory of 'Origin of life' was  
by-

A. Oparin

B. Sidney Fox

C. Miller

D. Haldane and Oparin

**Answer:**



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**10.** Choose which pair is correct-

A. Darwin-Inheritance of acquired character

B. Haldane-Natural selection

C. Lamarck-Development of variation

D. Darwin-Struggle for existence

**Answer:**



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**11.** The role of swim bladder of rohu fish-

A. Increases specific gravity

B. Decreases specific gravity

C. Gaina and loss of weight

D. Increases or decreases specific gravity

**Answer:**



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**12. Which is not green house gas -**

A. CFC

B.  $CH_4$

C.  $CO_2$

D.  $H_2$

**Answer:**



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**13.** The number of green house gases between  $CH_4$ ,  $H_2S$ ,  $N_2O$ ,  $CFC$  and  $CO_2$

A. 3

B. 4

C. 5

D. 2

**Answer:**



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**14.** Cause of 'Sarpangandha become endangered species'-

A. Global warming and climate change

B. Infiltration of exotic species

C. Excess usage

## D. Pollution

**Answer:**



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15. \_\_\_\_\_ hormone is present in coconut water.



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16. In RNA \_\_\_\_\_ is present instead of thymine as pyrimidine base.





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17. Phenotypical expression of organism is called \_\_\_\_\_.



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18. Finger and hoof in \_\_\_\_\_ limb is present in modern horse.



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19. \_\_\_\_\_ occurs when asbestos enters respiratory system.



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20. Sarpagandha plant number decreases due to \_\_\_\_\_.



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

Glucose level in blood is controlled by the hormones secreted from pancreas.



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

Permanent and qualitative development of a plant is called differentiation.





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

X chromosome has the main role in sex determination of human.



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

Evolution is the main cause of biodiversity in earth.



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

The abundance of biodiversity forms the food chain.



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

Thyroxine converts glycogen present in liver and muscle into glucose.



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**27.** Match the words in column A with those which are most appropriate in column B and re-write the correct pairing mentioning the

serial no. of the both column:

Column A	Column B
2.13 Weed suppression in agriculture	(a) Meiosis
2.14 Chiasma and crossing over	(b) Coacervate
2.15 Free ear lobe	(c) Synthesized plant hormone
2.16 Membraneous colloidal particle	(d) Bio magnification
2.17 Soil pollution	(e) Metaphase
2.18 Chromosomal arrangement in equatorial plane	(f) Dominant character
	(g) Mitosis



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28. Which is different: TSH,GTH,ACTH,ADH.



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**29.** Which layer of axon breaks its continuity often?



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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

Mitosis: Plumule:: \_\_\_: Primary spermatocyte.



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**31.** What is allele?



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**32.** What is cross pollination? Give example of such plants



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**33.** Name some plant fertilizers.



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**34.** Between these four followings, three of them belong to the same thing. Find and rewrite that-

Denitrification,  $N_2$  cycle, Ammonification, Nitrification.



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**35.** What is the medium of bio-magnification?



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**36.** What do you mean by accomodation? Give an example of it, how it helps in real life.



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**37.** Write two differences between tropic and nastic movement.



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**38.** Write down the name of flight muscle of bird.



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**39.** What is neurohormon? Give example.



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**40.** Write down two merits of tissue culture.



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**41.** Compare the role of DNA and RNA.



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**42.** Write down the changes in human in adolescence period.



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**43.** Explain the dominant and recessive characters from Mendel's monohybrid cross.



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**44.** What gametes are produced from a hybrid yellow and round seeded pea plant ( $YyRr$ ).



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**45.** Why blood is give several times to a thalassemia patient?



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**46.** What are the important characters of evolution found for the fossil of horse?



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**47.** Explain the role of swim bladder of rohu fish in aquatic adaptation.



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**48.** Give 3 results of biodiversity loss in a region.



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**49.**  $N_2$  cycle is affected by human activity-  
mention two events.



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**50.** Explain bio-magnification using word  
diagram.



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**51.** Imagine the problems can happen in future due to the degradation of natural resources.



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**52.** Local biodiversity is affected due to the infiltration of exotic species'-judge the statement.



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

Cornea, Retina, Lens, Ciliary body.



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**54.** Draw a neat diagram of human eukaryotic chromosome and label of the following parts-

Chromatid, Centromere, Telomere, Nucleolar organizer.





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**55.** Create a chart where the meiosis cell division takes place in organism. Compare  $G_1$  and  $G_2$  on the basis of synthesized material.



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**56.** Increase of water hyacinth is a dangerous situation for ecosystem . explain the process that led to this situation.



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57. In which case the phenotype and genotype ratio of  $F_2$  generation will be 1:2:1-



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58. Write down the names of two 'X' chromosomal disease. Show with a checker board if it is possible that the existance of a normal brother beside one colour blind brother and sister.



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**59.** Explain how long necked giraffe was originated according to Darwin.



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**60.** Write the adaptive features of cactus.



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**61.** Evaluate what kinds of environmental issues can happen by seeing following symptom-

Frequent cough and secretion of greenish-yellow sputum.



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**62.** Evaluate what kinds of environmental issues can happen by seeing following symptom-

Frequent cough and secretion of greenish-yellow cuff.



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**63.** How the take off and landing of aeroplane causes air-pollution? Evaluate what kinds of environmental issues can happen by seeing following symptom-

Fluid deposition in chest and chest pain.



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**64.** Give examples of plants with self and cross pollination



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**65.** Explain the characteristics of national park. Identify the sources of pollution in the Sundarbans ecosystem.



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**66.** Explain the characteristics of the followings of national park-

Nature of species.

Identify the sources of pollution in the Sundarbans ecosystem.



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**67.** Explain how overexploitation of exotic species effect biodiversity?



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**68.** Name the enzyme involved in biological nitrogen fixation.



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