



# BIOLOGY

**BOOKS - UNITED BOOK HOUSE**

**DUM DUM SREE VIDYAMNANDIR**

**PAPER**

## Exercise

**1. Name some hormones**

- A. To increase of lactation of a diary cow
- B. To stimulate the thyroid gland for horomone secretion
- C. To secreate sperm and egg cell from a fish by injecting it
- D. To increase the entering glucose in cell by increasing the penetrating power of cell membran

**Answer:**



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2. Which pair is incorrect-

A. Frontal lobe- Speech and personality

B. Occipital lobe-Eyesight

C. Parietal lobe-Hearing power

D. Temporal lobe-Hearing power

**Answer:**



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3. Which statement is correct about nastic movement-

A. Controlled by the way of stimulation

B. Controlled by auxin hormone

C. It is seen in plant root

D. Controlled by the intensity of stimulation

**Answer:**



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4. Identify the correct statement about autosome-

A. It carries the genetic characteristics

B. No. of it is 22 in reproductive cell

C. NO. of it is 46 in body cell

D. No. of its is 44 in reproductive cell

**Answer:**



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5. Identify the role of centrosome during cell division-

A. Formation of offspring chromosomes from maternal chromosomes

B. Protein synthesis

C. Energy production

D. Spindle formation and pole determination

**Answer:**



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6. Identify the artificial vegetative propagation-

A. bud formation of yeast

B. budding in hydra

C. new plant formation in Bryophyllum fern

D. reproduction by cutting

**Answer:**



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7. Which pair is correct-

- A. Anemophily flower-Colocasia,  
amorphophallus
- B. Ornithophily-bombax, palash
- C. Entomophily flower-rice, wheat
- D. Hydrophily flower-Kadam, Kanchan

**Answer:**



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8. How many types of gametes will be produced from AaBbCc genotype

A. 4 types

B. 8 types

C. 2 types

D. 1 types

**Answer:**



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9. Which statement is incorrect about thalassemia-

A. Iron is stored in the body as a result of repeated blood transformation .

B. Excessive growth of bone marrow distorts bone formation

C. Blood coagulation is disrupted

D. Haemoglobin production disrupted resulting acute anemia.

**Answer:**



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10. Which is characteristics of divergent evolution -

- A. Originally identical but work is different
- B. Originally different but work is same
- C. Indicates apocalyptic evolution
- D. Originally and structurally identical

**Answer:**



11. Coacervates was the first cell-it is the theory of-

A. Oparin

B. Fox

C. Darwin

D. Lamarck

**Answer:**



12. Which is not related to the theory of Darwin-

- A. Survival of the fittest
- B. Inheritance of acquired character
- C. Struggle for existence
- D. Natural selection

**Answer:**



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13. Identify the bacteria participating denitrification-

A. Rhizobium

B. Clostridium

C. Nitrosomonas

D. Pseudomonas

**Answer:**



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14. which pair is correct-

A. DDT, Aldrin-Biomagnificate

B. Sound pollution-Typhoid

C. Air pollution-Jaundice

D. Water pollution-Bronchitis

**Answer:**



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15. Which is not a characteristics of a sactuary-

- A. Its boundary is not fixed
- B. It is mainly reserved for wildlife
- C. Constituted in central Govt. law
- D. Tourists can travel here

**Answer:**



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**16.** Due to the presence of \_\_\_\_\_ hormone the ageing of leaves are delayed.





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**17.** If there are two sets of chromosome in the cell then it is called \_\_\_\_.



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**18.** From the monohybrid cross of Mendel we can get \_\_\_\_\_ law.



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**19.** Phyllode of Acacia and Phylloclad are the example of \_\_\_\_\_.



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**20.** Red panda are found in \_\_\_\_\_ national park of West Bengal.



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21. Due to the fertilization of organic and inorganic fertilizers, air pollutant gas\_\_\_\_\_ is reduced which is also a greenhouse gas.



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

Using convex lens , hypermetropia can be eliminated.



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**23.** What are biodiversity hotspots? Give examples of hotspots in India.



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

X chromosome may be present or absent in human sperm.



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**25.** Name some endangered animals.



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

Nitrobactor is a nitrogen stabilizing bacteria.



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

Reabsorption of water in renal tubule is disrupted in diabetes mellitus.



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**28.** 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 both column:

Column A	Column B
2.13 Fear, Anger, Emotion	(a) SPM
2.14 Final stage of human development	(b) Thalassemia
2.15 Autosomal diseases	(c) Comparative embryology
2.16 External gill slit	(d) Grafting
2.17 Dust and smoke	(e) Aging
2.18 Stock and scion	(f) Adrenaline
	(g) Cerebellum



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29. Which is different : FSH,LH,ICSH, ADH.



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**30.** Which bone junction is formed between the joint of tip and scapula of humerous?



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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.

Asexual reproduction: spore: :: Sexual reproduction: \_\_\_\_\_.



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**32.** What will be the genotype of hybrid tall pea plant?



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**33.** If father is normal but mother is a carrier of colour blindness then which offsprings will be colour blind?



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**34.** What is natural selection?



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**35.** One of the following four is different. Find the relation between the other three and write it:

SPM, Air pollution, Green house gas, Lung cancer



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**36.** Write a name of a bacterial disease caused by water pollution.



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**37.** Write down the difference between hormone and nervous system on this topic  
Process



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**38.** Write down the difference between hormone and nervous system on this topic  
Consequence.



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**39.** Names of anterior pituitary hormones



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**40.** Secretion of saliva seeing delicious food'-  
What kind of reflex action is it? Write you opinion about it.



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**41.** Write the causes of each disease-  
Dwarfism



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**42.** Write the causes of each disease-

Diabetes insipidus



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**43.** Write the causes of each disease-

Goitre



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**44.** Write the causes of each disease-

Diabetes mellitus.



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**45.** State the difference between heterochromatic and euchromatin.



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**46.** Name some herbivores and some carnivores.



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**47.** Write the difference between plant cell and animal cell on cytokinesis.



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**48.** What is incomplete dominance? What is its phenotypic ratio?



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**49.** Write down the probability of a male child to be haemophilic when his father is haemophilic but mother is normal.



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**50.** Explain the following

Allele



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**51.** Function of plant leaf.



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**52.** What is the national animal and bird of India



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**53.** "For the change of food source and position of sun, the dance posture of bee can be noticed"-prove the statement.



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**54.** Explain the role of leaf and root of Sundari tree in saline salt.



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**55.** "The level of  $N_2$  is increased in soil in time of lightning in the sky during thunderstorms."- explain how it is possible.



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

Production of food



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

Preparation of medicine.



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**58.** Name some extinct animals



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**59.** What is PBR in biodiversity.



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

Chromatid, Centromere, Telomere, Nucleolar organizer.



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**62.** "Cell division is essential for the repair of body parts". -Explain the statement with three appropriate examples. Write the advantages and disadvantages of the spore of a flower if it is transferred to its stigma.



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**63.** Write down changes during puberty for human in male and female body.



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**64.** Explain the reason for success of Mendel's hybrid cross. Write the differences between phenotype and genotype.



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**65.** Show the cross of the hybrid tall pea tree and a pure short pea tree using checker board.

Write the law of segregation by Mendel.



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**66.** Function of plant root system



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**67.** Explain the following of Darwin's theory of evolution.

Overproduction

Write down the difference between homologous and analogous organ.



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**68.** Explain the following of Darwin's theory of evolution.

Development of variation

Write down the difference between homologous and analogous organ.



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69. Write down the 1 difference between homologous and analogous organ.



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70. Write down the difference between homologous and analogous organ.



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**71.** Explain the following:

The water of a pond has become green and smelly and the big fish died and floated over the water.



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**72.** Explain the following:

The brightness of a temple in your locality has

gone which is made of marble stone.



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**73.** What are the shoot and root system in plants?



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**74.** Write down the effects of sound pollution on human health.



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**75.** Explain the role of JFM for conservation of biodiversity. Write down two causes of the decrease of crocodile in India and where it is conserved?



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**76.** Explain for why westernghat and eastern himalaya are known as hotspots. Explain the

benefits of cryoconservation for the following.

Increase in number of extinct plants.



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**77.** Explain for why westernghat and eastern himalaya are known as hotspots. Explain the benefits of cryoconservation for the following.

Increase in number of endangered animals.



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