



# BIOLOGY

## BOOKS - SANTRA BIOLOGY (BENGALI ENGLISH)

### LEVELS OF ORGANIZATION OF LIFE

Mcq

1. Which is minor element ?

A. N

B. K

C. Mo

D. P

**Answer:**



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**2. Which is natural acid ?**

A. Nitric acid

B. Sulphuric acid

C. Malic acid

D. Hydrochloric acid

**Answer:**



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**3.**  $C_6H_{12}O_6$  is the formula of

A. Glucose

B. Sucrose

C. Maltose

D. Lactose

**Answer:**



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4.  $CH_3(CH_2)_{16}COOH$  is the chemical formula

of

A. Oleic acid

B. Linoleic acid

C. Stearic acid

D. Palmitic acid

**Answer:**



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5. Which is pyrimidine ?

A. Uracil

B. Guanine

C. Adenine

D. None of them

**Answer:**



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**6. Water soluble vitamin is**

A. Vit-K

B. Vit-E

C. Vit-A

D. Vit-C

**Answer:**



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7. Which cellular organelles help in the formation of the tail of sperm

A. Mitochondria

B. Nucleus

C. Centriole

D. Golgi body

**Answer:**



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**8. Middle lamella is principally formed of**

A. Phosphorus

B. Sulphur

C. Calcium

D. Boron

**Answer:**





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9. Which provides mechanical strength to the cell

A. Plasma membrane

B. Mitochondria

C. Cell wall

D. Lysosome

**Answer:**



10. Which acts as osmotic barrier in between the interior and exterior of the cell

- A. Vacuole
- B. Golgi body
- C. Plasma membrane
- D. Microtubule

**Answer:**



**11.** Separate xylem and phloem bundles are known as

A. Radial

B. Nucleus

C. Bi-collateral

D. Collateral

**Answer:**



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12. Multilayered epidermis is found in

A. Datura

B. Ficus

C. Pea

D. Fern

**Answer:**



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13. Which tissue give mechanical strength to plant organs

- A. Parenchyma
- B. Collenchyma
- C. Stomata
- D. Accessory cells

**Answer:**



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14. White fibre is found in

A. Skin

B. Bones

C. Collagen

D. Muscles

**Answer:**



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15. The largest blood corpuscles is

A. Monocyte

B. Lymphocyte

C. Neutrophils

D. Basophils

**Answer:**



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**16. Cardiac muscle is**

A. Smooth

B. Striated

C. Involuntary

D. Both (b) and (c)

**Answer:**



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**17.** Undigested food or chyme does not pass through

A. Stomach



B. Pancreas

C. Lung

D. Liver

**Answer:**



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**18.** The loop of Henle is associated with

A. Brain

B. Liver

C. Heart

D. Kidney

**Answer:**



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**19.** Which of the following is not an excretory organ ?

A. Kidney

B. Lungs

C. Spleen

D. Liver

**Answer:**



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**20.** The balance organ of brain is

A. Cerebrum

B. Cerebellum

C. Hypothalamus

D. Pons

**Answer:**



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**21.** From which of the chamber of human heart oxygenated blood is transmitted to different parts of the body ?

A. Right auricle

B. Left ventricle

C. Right ventricle

D. Left auricle

**Answer:**



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**22.** Oestrogen is one of the hormone produced by

A. Pituitary

B. Ovary

C. Testes

D. Adrenal

**Answer:**



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## Fill In The Blanks

1. \_\_\_\_\_ is a fat soluble vitamin.



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2. \_\_\_\_\_ acts as co-factor in electron transport system.



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3. Proteins are \_\_\_\_\_ of monomeric units.



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4. \_\_\_\_\_ is the most abundant substance of living beings.



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5. \_\_\_\_\_ is a organic acid.



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6. The plastid contains a red pigment, called \_\_\_\_\_.



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7. \_\_\_\_\_ stores protein.



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8. Primary lysosome is formed from\_\_\_\_\_.



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9. The membrane of lysosome is made up of\_\_\_\_\_.



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10. \_\_\_\_\_ helps in the formation of the tail of sperm.



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11. The function of sclerenchyma is \_\_\_\_\_.



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12. The apical meristem of the shoot consists of the 2-layers called as \_\_\_\_ and \_\_\_\_.



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13. Vascular bundles originate from \_\_\_\_.



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14. Haversian system is a diagnostic features of \_\_\_\_.



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15. Nissl's granule are found in\_\_\_\_\_.



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16. The junction of two neurons is called\_\_\_\_\_.



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17. \_\_\_\_ is lying in the U shaped loop of duodenum.



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18. Lungs helps in \_\_\_\_.



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19. \_\_\_\_ is located in the cranium bounded by meninges.



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20. \_\_\_\_\_ is a largest digestive gland of our body.



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## True Or False

1. True or False:  $NaHSO_4$  is a acidic salt.



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**2. True or False: Monosaccharides can not be hydrolysed further.**



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**3. True or False: Ribose is a important component of DNA.**



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4. True or False: Fructose is a aldose sugar.



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5. True or False: Fat are the most concentrated source of energy.



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6. True or False: Microtubules are numerous thin rod like fibrillar elements.





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7. True or False: The outer thick and rigid permeable coat of plant cell is cell membrane.



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8. True or False: Plasma membrane protects the cellular living portions from external environment.



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**9.** True or False: The matrix part of cytoplasm is known as cytosol.



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**10.** True or False: Mitochondria is called the brain of the cell.



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**11.** True or False: Branches in root arise from endodermis.



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**12.** True or False: Collenchyma is a dead tissue.



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**13.** True or False: Secondary growth in dicots occurs by the activity of lateral system.



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**14.** True or False: Fibroblasts store fat in the adipose tissue.



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**15.** True or False: Serum globulin acts as an antibody.



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**16.** What is the significant role of schwann cells ?



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**17.** True or False: Skin involved in synthesis of vitamin D.



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**18.** True or False: Stomach located lower abdominal cavity.



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**19.** True or False: Heart is a circulatory organ.



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**20.** True or False: Kidney is a rod shaped structure.



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21. True or False: Spleen controls metabolism of carbohydrates, proteins, and fats.



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## Very Short Answer Type Questions

1. What is the complete name of DNA ?



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2. What is the main deficiency symptoms of vitamin-A ?



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3. What is the chemical name of vitamin-C ?



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4. Name two micro elements.







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5. Which element takes part in the nerve cell formation ?



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6. Middle lamella is principally formed of which component ?



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7. Which cellular organelle facilitates diffusion and Osmosis in a cell ?



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8. What is cytoplasmic skeleton ?



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9. What is cytosol ?



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**10.** Which is called the brain of the cell ?



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**11.** What is phycoxanthin ?



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**12.** What type of cells are present in root cortex ?



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**13.** Give the characteristics of meristematic cells.



**Watch Video Solution**

**14.** Give the types of parenchyma.



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**15.** Name the tissue where Haversian canal is found.



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**16.** Name the tissue which connect bone to muscle.



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17. What is the significant role of Schwann cells ?



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## Short Answer Type Questions

1. What is salt ?



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2. Mention two biological importance of water in plant cell ?



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3. What is mineral acid ?



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4. Mention two importance of the magnesium.



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5. What is protein ?



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6. Define plastids.



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7. Mention two major function fo chloroplast.



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8. What is endoplasmic reticulum ?



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9. What is ribosome ?



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10. States three different functions of centriole.



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**11.** What are ergastic substances ?



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**12.** What is tissue ?



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**13.** Give the function of parenchyma.



**Watch Video Solution**

**14.** States the characteristics of permanent tissue.



**Watch Video Solution**

**15.** What are constituent of actin filament ?



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**16.** What are connective tissue ?



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**17.** What are functions of the epithelial tissue ?



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**18.** What are non-protein nitrogenous substances? Give two examples.



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**19.** What do you mean by pericardium? What are its functions?



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**20.** Mention the location of kidney of human.



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**21.** Mention the role of human liver.



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22. Write two functions of ovary of human.



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23. What is the location of spinal cord in human?



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1. What are the functions of water ?



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2. Name the essential amino acids. What are the biological importance of amino acid ?



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3. Describe the general role and deficiency symptoms of vit-A, D, E, K.



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4. States about the biological importance of protein.



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5. States the characteristics and types of Acid.





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6. States the characteristics and types of Bases.



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7. Give example of simple sugar. Describe the biological importance of monosaccharide.



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**8. Compare DNA with RNA.**



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**9. What are the water soluble vitamin ? State their deficiency symptoms.**



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**10. State the general role of Ca, P, Fe, I and N.**



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**11.** Describe the structure of cytoplasm.

Mention the function of matrix of cytoplasm.



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**12.** Describe the ultra-structure of nucleus with proper diagrammatic illustration.



**Watch Video Solution**

**13.** What are the functions of mitochondria and plastids ?



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**14.** States about the different functions of endoplasmic reticulum.



**Watch Video Solution**

**15.** Describe about the different structural components of the golgi body with clarified diagrams.



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**16.** What is xylem ? Briefly describe about the different components of xylem.



**Watch Video Solution**

**17.** What is pholem ? Briefly describe about the different components of phloem.



**Watch Video Solution**

**18.** State the differences between meristematic tissue and permanent tissue.



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**19.** Describe the distribution, characteristics and function of muscular tissue.



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**20.** Describe the distribution, characteristics and function of Epithelial tissue.



**Watch Video Solution**

**21.** What is nerve tissue ? Describe its characteristics and functions ?



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**22.** Describe the location and role of stomach in human.



**Watch Video Solution**



**23.** Mention the location of heart in man.

Describe the function of heart.



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**24.** Describe the location and function of kidney in human body.



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**25.** Write short note on testes in man.



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**26.** Write the location and function of human brain.



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