



# BIOLOGY

## BOOKS - SURA PUBLICATION

### ORGANIZATION OF LIFE

#### Example

1. .... Is tough and thick white sheath that protect the inner parts of the eye.

A. sclera

B. conjunctiva

C. cornea

D. iris

**Answer:**



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2. Maintenance of constant internal environment of the body is known as .....

A. Homeostatis

B. Homeophytes

C. Homeokinesis

D. Homeophilics

**Answer:**



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**3.** In the absence of oxygen, glucose is broken down in to .....

A. Lactic acid

B. Citric acid

C. Acetic acid

D. Nitric acid

**Answer:**



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4. .... Cells are specialised cells that can be transformed into any kind of cells.

A. Nerve

B. Stem

C. Heart

D. Bone

**Answer:**



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5. Osmosis is the movement of water molecules from a ,,,,,,,,,,,,,,

A. Higher concentration to a region of lower concentration.

B. Lower concentration to a region of higher concentration.

C. Both of these

D. None of these

**Answer:**



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6. The erythrocyte is placed in ..... Solution which has lesser concentration of solutes and greater concentration of water than in the cytoplasm.

A. Hypotonic

B. Hypertonic

C. Neutral

D. Acidic

**Answer:**



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7. Fill in the station : ..... Is the structural and functional unit of living organisms.



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8. Fill in the blanks : The largest cell is egg of an .....



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**9.** Fill in the blanks : ..... is a good example for anaerobic respiration.



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**10.** Fill in the blanks : ..... nerve is located at the end of the eyes behind the retina.



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11. Fill in the blanks : The size of the cells are measured in units of .....,



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12. Match the following :

1.	Carbohydrates	-	(a)	CO <sub>2</sub> , water and heat
2.	Glucose	-	(b)	amino acid
3.	Protein	-	(c)	glucose



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**13. Match the following :**

1. Glucose	-	(a)	cholesterol and other steroid
2. Amino acids	-	(b)	glycogen and other sugars
3. Fatty acids	-	(c)	enzymes, hormone, protein



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**14. Write true or False . If false, give the correct answer :** In hypotonic condition ,concentration of the external and the internal solution of the organism are same.



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**15.** Write true or False . If false , give the correct answer : Diffusion is the movement of particles from an area of lower concentration to higher concentration.



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**16.** Write true or False . If false , give the correct answer : Human beings are warm blooded in nature.



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**17.** Write true or False . If false, give the correct answer : The larynx has fold of tissue which vibrate with the passage of air to produce.



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**18.** Write true or False . If false, give the correct answer : Aqueous humour plays an important role in maintaining the shape of eye.



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**19.** Arrange the following words in correct sequence :

Tissues ,organ system , organism, cell, organ.



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**20.** What is cell differentiation ?



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**21.** State different types of tissues.



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**22.** Mention the function of 'Alveoli' ?



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**23.** Name the processes by which air enters and comes out of our lungs ?



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**24.** Distinguish between Osmoconformers and Osmoregulators.



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**25.** Define Metabolism ?



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**26.** Define :Prokaryotic cells.



**Watch Video Solution**



**27. Define Eukaryotic cell ?**



**Watch Video Solution**

**28. Distinguish between Aerobic and Anerobic respiration .**



**Watch Video Solution**

**29.** Why the human eye is compared with camera ?



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**30.** Which organ and organ system help to maintain homeostatis ?



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**31.** Draw the V.S of human eye and label its parts.



**Watch Video Solution**

**32.** Explain Osmosis with an example .



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**33.** Differentiate between inhalation and exhalation .



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**34.** List out the different types of metabolism with an example.



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**35.** Explain the mechanism of breathing.



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**36.** Read the given paragraph about human eye carefully and correct the mistakes.

Our eye is cylindrical shaped. The wall of the eyeball is composed of five layers. The outermost layer is cornea. The innermost layer is called sclera. The eyeball consists of elastic nerves and biconcave lens. The pupil attaches lens to iris . Iris has rod and cone shaped cells. Aqueous humour is present between lens and retina. The vitreous humour is present between cornea and lens . The brain changes

the light into nerve impulses and sends them to retina.



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**37.** Why do we need instant energy ? Does glucose give that energy ? Explain .



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**38.** How are they preparing pickles ? What are the steps involved in that ?



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**39.** Dr. Usha is a pulmonologist (Doctor for respiratory diseases). One day , a school student named Arjun , met her with respiratory problems. After diagnosis , the doctor advised him to go playground daily and play football or basketball. She also advised to do pranayamam in the morning.

Why did the doctor advised him to go to the playground ?



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**40.** Dr. Usha is a pulmonologist (Doctor for respiratory diseases). One day , a school student named Arjun , met her with respiratory problems. After diagnosis , the doctor advised him to go playground daily and play football or basketball. She also advised to do pranayamam in the morning.

What is the use of pranayamam ?



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**41.** Explain why are you not able to breath normally when you are in closed and crowded places ?



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**42.** Shylesh is a school going kid studying standard VIII. He is crazy about playing video games in mobile phones .After couple of months , his eyes turned red and he felt severe pain in his eyes. His science teacher enquired about this and advised his parents to take him

to consult an eye doctor.

How does excessive usage of mobile phones affect our eyes ?



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**43.** Shylesh is a school going kid studying standard VIII. He is crazy about playing video games in mobile phones .After couple of months , his eyes turned red and he felt severe pain in his eyes. His science teacher enquired about this and advised his parents to take him

to consult an eye doctor.

What are the values shown by the teacher ?



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**44.** ..... is a type of connective tissue.

A. Bone

B. Cardiac muscle

C. Neuron

D. Ciliated epithelium

**Answer:**



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**45. .... is a transparent layer .**

A. Sclera

B. Cornea

C. Choroid

D. Retina

**Answer:**



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46. .... is not an example of diffusion .

- A. Tea bags in hot water.
- B. Incense sticks
- C. Exchange of respiratory gases
- D. Pickling

**Answer:**



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47. Each glucose molecule produces .....  
ATP.

A. 38

B. 40

C. 36

D. 34

**Answer:**



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**48.** ..... Of the eye is comparable to film of a camera .

A. Retina

B. Sclera

C. Lens

D. Cornea

**Answer:**



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49. Fill in the blanks : The smallest cell in human body is .....



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50. \_\_\_\_\_ is the coloured portion of the eye.



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51. Fill in the blanks : The transparent membrane that keeps the eye moist is .....



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52. Lungs are covered by a membrane called \_\_\_\_\_ .



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53. Fill in the blanks : The voice box is called ..... .



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**54.** True or False - If false give the correct statement : Blood is a fluid connective tissue.



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**55.** True or False - If false give the correct statement : Stem cells can serve as inbuilt repair system for our body.



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**56.** True or False - If false give the correct statement : Ribosome is an organelle seen in prokaryotes and eukaryotes.



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**57.** True or False - If false give the correct statement : The wind pipe is called larynx.



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**58.** True or False - If false give the correct statement : No energy is produced in anaerobic respiration .



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**59.** Match the following :

i	Alveoli	(a)	Yeast
ii	Ethanol	(b)	Gaseous exchange
iii	Diffusion	(c)	Amino acids
iv	Protein	(d)	Perfume



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60. Match the following :

i	Conjunctiva	(a)	Coloured part of eye
ii	Cornea	(b)	Photosensitive layer
iii	Iris	(c)	Refraction
iv	Retina	(d)	Protection



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61. Direction : In each of the following questions , a statement of Assertion is given and a corresponding statement of Reason is given just below it .Of the four statements ,given below,mark one as the correct answer .

Assertion: During inhalation , the diaphragm goes downward.

Reason : The volume of thoracic cavity decreases.

A. If both Assertion and reason are true and Reason is the correct explanation of Assertion.

B. If both Assertion and Reason are true and Reason is not the correct explanation of Assertion.

C. If Assertion is true but Reason is false.

D. If both Assertion and Reason are false.

**Answer:**



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**62.** Direction : In each of the following questions , a statement of Assertion is given and a corresponding statement of Reason is given just below it .Of the four statements ,given below,mark one as the correct answer .

**Assertion:** Diffusion of molecules occurs

through a semipermeable membrane .

Reason : Molecules of gases are only involved in diffusion.

A. If both Assertion and reason are true and Reason is the correct explanation of Assertion.

B. If both Assertion and Reason are true and Reason is not the correct explanation of Assertion.

C. If Assertion is true but Reason is false.



D. If both Assertion and Reason are false.

**Answer:**



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**63.** What is a complex tissue ?



**Watch Video Solution**

**64.** What is a stem cell ?



**Watch Video Solution**

**65.** What is 'white of the eye '?



**Watch Video Solution**

**66.** Define diffusion



**Watch Video Solution**

**67.** Give the equation for aerobic respiration.



**Watch Video Solution**

**68.** What is meant by the term osmoregulation?



**Watch Video Solution**

**69.** Differentiate Aqueous humour and Vitreous humour.



**Watch Video Solution**

70. What is the signification of ciliated epithelium present in the nostrils?



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71. How is connective tissue classified ?



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72. Describe the parts in the external structure of the eye .



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**73.** Draw a neat labelled diagram of Human respiratory system.



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**74.** Describe the structure of the lungs.



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75. Is breathing similar to respiration ? Justify .



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## Exercise

1. The process of air passing in and out the lungs is called .....

A. Inhalation

B. Exhalation

C. Breathing

D. None of these

**Answer:**



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2. .... Is tough and thick white sheath that protect the inner parts of the eye.

A. sclera

B. conjunctiva

C. cornea

D. iris

**Answer:**



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**3. .... is a transparent layer .**

A. sclera

B. Cornea

C. Choroid



## D. Retina

**Answer:**



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**4. Fill in the station : ..... Is the structural and functional unit of living organisms.**



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5. Fill in the blanks : The voice box is called

..... .



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6. Fill in the blanks : The blood is red in colour

due to presence of .....



**Watch Video Solution**

7. Write true or False . If false , give the correct answer : Human beings are warm blooded in nature.



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**Watch Video Solution**

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**Watch Video Solution**

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**Watch Video Solution**

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**Watch Video Solution**