

Worksheet-1

Ch-6 Life Processes (Answers)

MULTIPLE CHOICE QUESTIONS

1. The breakdown of pyruvate to give carbon dioxide, water and energy takes place in

- (a) Cytoplasm. (b) Mitochondria. (c) Chloroplast. (d) Nucleus.

Answer: (b) Mitochondria.

2. During cellular respiration one molecule of glucose is first broken down into two molecules of

- (a) Acetic acid. (b) Pyruvic acid. (c) Lactic acid. (d) None of the above.

Answer: (b) Pyruvic acid

3. Which of the following statements about the autotrophs is incorrect?

- (a) They synthesise carbohydrates from carbon dioxide and water in the presence of sunlight and chlorophyll.
(b) They store carbohydrates in the form of starch.
(c) They convert carbon dioxide and water into carbohydrates in the absence of sunlight.
(d) They constitute the first trophic level in food chains.

Answer: (c) They convert carbon dioxide and water into carbohydrates in the absence of sunlight.

4. Choose the function of the pancreatic juice from the following

- (a) Trypsin digests proteins and lipase carbohydrates
(b) Trypsin digests emulsified fats and lipase proteins
(c) Trypsin and lipase digest fats
(d) Trypsin digests proteins and lipase emulsified fats

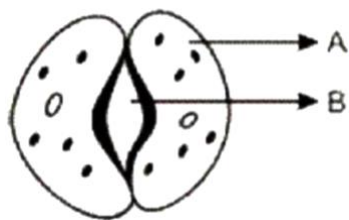
Answer: (d) Trypsin digests proteins and lipase emulsified fats

5. Choose the correct path of urine in our body

- (a) kidney → ureter → urethra → urinary bladder
(b) kidney → urinary bladder → urethra → ureter
(c) kidney → ureters → urinary bladder → urethra
(d) urinary bladder → kidney → ureter → urethra

Answer: (c) kidney → ureters → urinary bladder → urethra

6. The parts shown as A and B in the given diagram are



The parts shown as A and B in the given diagram are

- (a) A is epidermal cell, B is stomatal pore (b) A is guard cell, B is stomatal pore
(c) A is epidermal cell, B is guard cell (d) A is guard cells, B is epidermal cell

Answer: (b) A is guard cell, B is stomatal pore

7. In normal expiration, the diaphragm is

- (a) Arched (b) Flattened (c) Perforated (d) None of these**

Answer: (a) Arched

8. Villi present on the inner lining of the intestinal wall

- (a) Secrete enzymes for digestion (b) Secrete hormones**
(c) Decreases the surface area for absorption (d) Increases the surface area for absorption

Answer: (d) Increases the surface area for absorption

9. The correct pathway of blood in circulatory system is

- (a) atria → ventricles → arteries → veins**
(b) ventricles → atria → veins → arteries
(c) ventricles → veins → arteries → atria
(d) veins → ventricles → atria → arteries

Answer: (a) atria → ventricles → arteries → veins

10. Respiration is a process in which

- (a) Energy is stored in the form of ADP (b) Energy is released and stored in the form of ATP**
(c) Energy is used up (d) Energy is not released at all

Answer: (b) Energy is released and stored in the form of ATP

11. Full form of ATP?

- (a) Adenosine Triphosphate (b) Adenosine Tetraphosphate**
(c) Adenine Triphosphate (d) Adenosine Tripolymer

Answer: (a) Adenosine Triphosphate

12. The xylem in plants are responsible for

- (a) transport of water. (b) transport of food.**
(c) transport of amino acids. (d) transport of oxygen.

Answer: (a) transport of water.

13. Why blood is red?

- (a) due to presence of oxygen (b) due to presence of haemoglobin**
(c) due to presence of CO₂ (d) due to presence of WBC

Answer: (b) due to presence of haemoglobin

14. If kidney fails to reabsorb water, the tissues would

- (a) remain unaffected (b) shrink to shrivel**
(c) absorb water from blood (d) take more oxygen from blood

Answer: (b) shrink to shrivel

15. The autotrophic mode of nutrition requires

- (a) carbon dioxide and water. (b) chlorophyll. (c) sunlight. (d) all of the above.**

Answer: (d) all of the above.

16. The breakdown of pyruvate to give carbon dioxide, water and energy takes place in
(a) cytoplasm. (b) mitochondria. (c) chloroplast. (d) nucleus.

Answer: (b) mitochondria.

17. Chyme is

- (a) Digestive enzyme secreted by stomach. (b) Hormone secreted by islets of Pancreas.
(c) Food which enters into intestine from stomach. (d) Part of bile juice which stores in gall bladder.

Answer: (c) Food which enters into intestine from stomach.

18. Haemoglobin is a type of

- (a) Carbohydrate (b) Skin Pigment (c) Vitamin (d) Respiratory Pigment

Answer: (d) Respiratory Pigment

19. Which is the correct sequence of parts in human alimentary canal?

- (a) mouth → stomach → small intestine → oesophagus → large intestine
(b) mouth → oesophagus → stomach → large intestine → small intestine
(c) mouth → stomach → oesophagus → small intestine → large intestine
(d) mouth → oesophagus → stomach → small intestine → large intestine

Answer: (d) mouth → oesophagus → stomach → small intestine → large intestine

20. The inner lining of stomach is protected by one of the following from hydrochloric acid. Choose the correct one

- (a) Pepsin (b) Mucus (c) Salivary amylase (d) Bile

Answer: (b) Mucus

ASSERTION AND REASON QUESTIONS

Following questions consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below:

- (a) Both A and R are true and R is the correct explanation of A.
(b) Both A and R are true but R is not the correct explanation of A.
(c) A is true but R is false.
(d) A is false but R is true.

Q.2.1 Assertion (A): Diffusion does not meet high energy requirements of multi-cellular organisms

Reason (R): Diffusion is a fast process but occurs at the surface of the body.

Answer: (c) A is true but R is false.

Q.2.2 Assertion (A): The purpose of making urine is to filter out undigested food from intestine

Reason (R): Kidneys filter the waste and produce urine

Answer: (d) A is false but R is true.

Q.2.3 Assertion (A): The inner lining of the small intestine has numerous finger-like projections called villi.

Reason (R): The villi increase the surface area for absorption.

Answer: (a) Both A and R are true and R is the correct explanation of A.

Q.2.4 Assertion (A): Photosynthesis takes place in green parts of the plants.

Reason (R): Photosynthesis always takes place in leaves.

Answer: (c) A is true but R is false.

Q.2.5 Assertion (A): Ureters are the tubes which carry urine from kidneys to the bladder.

Reason (R): Urine is stored in the urethra.

Answer: (c) A is true but R is false.