

# BIOLOGY

# PRACTICE TEST

---

## Question 1<sup>st</sup> - 5<sup>th</sup>

Choose one correct answer from four answers, enter it in the box on the right. (Correct answer = 1 point, wrong answer = 0 points).

---

1. Animals are characterised as

- A. autotrophs and obligate aerobes
- B. heterotrophs and anaerobes
- C. heterotrophs and facultative anaerobes
- D. heterotrophs and obligate aerobes

2. The bones of the forearm are

- A. tibia and fibula
- B. radius and ulna
- C. humerus and femur
- D. carpus and tarsus

3. Plasma membrane

- A. is impermeable to water
- B. consists of lipid bilayer and proteins
- C. is made up of cellulose
- D. consists of protein bilayer and glycolipids

4. What organelles are producers of energy:

- A. endoplasmatic reticulumm
- B. mitochondria
- C. Golgi komplex
- D. vacuole

5. The genetic code is:

- A. non-overlapping, degenerated, tripled, species-specific
- B. overlapping, degenerated, doubled, universal
- C. non-overlapping, degenerated, tripled, universal
- D. non-overlapping, non-degenerated, tripled, universal

---

## Question 6<sup>th</sup> - 10<sup>th</sup>

Answer briefly and precisely and please enter in boxes on the right. (Correct answer = 1 point, incomplete or wrong answer = 0 points).

---

6. Divide the mesozoic era into time periods

7. Pepsin is produced in

8. The part of a neuron which brings the impulse into the neurocyte is called:

9. Which organelles are responsible for intracellular respiration?

10. If we study the flow of energy through an ecosystem, we describe three types of organisms: producers, consumers, and:

---

Question 11<sup>th</sup> - 15<sup>th</sup>

Choose two correct answers from six, enter them in two boxes on the right. (Two correct answers = 2 points, only one correct answer = 1 point, incorrect answers = 0 points).

---

11. The nuclear membrane:

- A. is a single membrane surrounding the true nucleus
- B. is formed by proteins and polysaccharides
- C. surrounds tightly the nuclear DNA
- D. is not continuous with endoplasmic reticulum
- E. contains pores
- F. controls the transport between the nucleus and cytoplasm

12. For G<sub>2</sub> phase of cell cycle is typical:

- A. follows after G<sub>1</sub> phase of cell cycle
- B. follows after S phase of cell cycle
- C. includes the replication of mitochondria and other organelles
- D. cytokinesis takes place here
- E. replication of chromosomal DNA takes place here
- F. chromosomes condense and spindle forms

13. Mark the correct possibilities of complementary bases of tRNA anticodons to mRNA codons:

- A. tRNA AUG CAU = mRNA TAC GTA
- B. tRNA AUG CAU = mRNA UAC GUA
- C. tRNA UGA CAU = mRNA UGA CAU
- D. tRNA AUG GAC = mRNA UAC CUG
- E. tRNA AAC CCU = mRNA TTG GGA
- F. tRNA CUG GCG = mRNA UGA CAU

14. Parents are O and AB blood groups. Their children could have blood groups:

- A. only A, B, and AB
- B. AB and O
- C. 50% A and 50% B
- D. only AB
- E. A, B, AB, and O
- F. different from parents' blood groups

15. The most common aneuploidy in newborns is

- A. triploidy  
C. supermale  
E. Turner` syndrome
- B. trisomy of chromozome 21  
D. Down`s syndome  
E. trisomy of chromosome 18

--	--

---

Question 16<sup>th</sup> - 36<sup>th</sup>

Answer simply and concisely, maximum 20 words. (Answer will be evaluated by three, two, one or zero points).

---

16. To the respiratory system belongs:

17. The function of medulla spinalis is:

18. Name the most frequent human parasites, worms.

### ANSWERS

Questions 1<sup>st</sup> - 5<sup>th</sup>

1.	2.	3.	4.	5.
D	B	B	B	C

Questions 6<sup>th</sup> - 10<sup>th</sup>

6.	7.	8.	9.	10.
Triassic, Jurassic, cretaceous	Stomach	Dendrite	Mitochondria	Decomposers

Questions 11<sup>th</sup> - 15<sup>th</sup>

11.	12.	13.	14.	15.
E,F	B,C	B,D	C,F	B,D

Questions 16<sup>th</sup> - 18<sup>th</sup>

16. Upper resp. tract: nose, paranasal sinusses, pharynx; Lower resp. tract: larynx, trachea, bronchi, and lungs
17. Reflex centre of the body. Interconnection of priphery of the body with CNS via White matter ascending (sensory) and descending (motor) pathways
18. Taenia saginata, Taenia solium, Hymenolepis nana, Ascaris lumbricoides, Enterobius vermicularis Trichuris trichiura, Trichinella spiralis