

Name: _____	Subject: Biology	Class: 12 th	Time: 80 minutes	Total Marks:	40
Chapter No.15		MJDexpert.com		Obtained marks	

Note: Please attempt any 10 short questions from Question 2. Also, attempt both parts of Question 3. Cutting and removal of any content is strictly prohibited.

Q.No.1 Choose the correct option.

Q.1: What term describes an organism's ability to control its internal fluid balance?

- A) Thermoregulation B) Osmoregulation C) Excretion D) None

Q.2: What does the term homeostasis refer to?

- A) Osmoregulation B) Excretion C) Both A and B D) None

Q.3: Which of the following excretory substances needs the least amount of water for excretion?

- A) Uric Acid B) Urea C) Ammonia D) All

Q.4: What is the basic functional unit of the kidney?

- A) Flatirons B) Nephrons C) Dendrons D) Neurons

Q.5: Which substances are considered excretory products?

- A) Carbon Dioxide B) Nitrogenous Waste C) Bile Pigment D) All

Q.6: How do plants regulate their temperature?

- A) Osmosis B) Diffusion C) Transpiration D) All

Q.7: How many molecules of ammonia are required to synthesize one molecule of urea?

- A) 1 B) 2 C) 3 D) 4

Q.8: Which of the following is not a mesophyte?

- A) Brassica B) Rose C) Mango D) Cacti

Q.9: What is the term for severe renal failure?

- A) Uremia B) Leukemia C) Anemia D) None

Q.10: What is the primary treatment for Uremia?

- A) Dialysis B) Lithotripsy C) Kidney Transplant D) All

Q.No.2 Short Questions (10 x 2 = 20)

Q.1: What is meant by Homeostasis?

Q.2: Compare and contrast Osmoregulation with Thermoregulation.

Q.3: What are hydrophytes? How do they manage during water flooding?

Q.4: List two roles of the liver in maintaining homeostasis.

Q.5: Define anhydrobiosis and provide an example.

Q.6: What is renal failure?

Q.7: Explain metabolic disorders and identify which ones can lead to kidney stones.

Q.8: Differentiate between hypercalcemia and hyperoxaluria.

Q.9: What is lithotripsy?

Q.10: Describe the urea cycle and provide a diagram.

Q.No.3 Long Questions (2 x 5 = 10)

Q.1: Explain the functions of the liver as an organ involved in excretion.

Q.2: Discuss various kidney disorders and their treatments.