

Name: _____						
Subject: Biology		Class: 12 <sup>th</sup>	Time: 80 minutes	Total Marks:	40	
Chapter No.19		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#1 Encircle the Correct Option (10 x 1 = 10)**

1. What is the optimal temperature range for maximum plant growth?

- A) 15-20°C    B) 20-25°C    C) 25-30°C    D) 30-35°C

2. Cleavage leads to the formation of a rounded mass of closely packed blastomeres known as?

- A) Morula    B) Blastula    C) Gastrula    D) Neurula

3. Apical dominance is controlled by which hormone?

- A) Gibberellins    B) Cytokinins    C) Ethylene    D) Auxins

4. The neurula stage in embryonic development features?

- A) Blastocoel    B) Neural Tube    C) Germ Layers    D) None of These

5. A plant exhibiting a growth pattern where growth occurs at specific regions is known as?

- A) Open Growth    B) Closed Growth    C) Both A & B    D) None of These

6. The ability to regenerate lost or damaged body parts is called?

- A) Recovery    B) Reproduction    C) Regeneration    D) Regrowth

7. The branch of biology focused on studying abnormal development and its causes is known as?

- A) Teratology    B) Gerontology    C) Embryology    D) Microcephaly

8. What is the condition called when individuals are born with a smaller-than-normal skull?

- A) Gerontology    B) Microcephaly    C) Embryology    D) Teratology

9. After fertilization, the series of mitotic divisions of the egg is referred to as?

- A) Morula    B) Blastula    C) Neurulation    D) Cleavage

10. During cell elongation, the volume of the cell increases by how many folds due to water uptake?

- A) 150    B) 50    C) 70    D) 80

**Q #2 Short Questions (2 x 10 = 20)**

1. Differentiate between growth and development.
2. What is meristem?
3. Describe open growth in plants.
4. Discuss the position and significance of the apical meristem.
5. Contrast the morula and blastula stages in chick development.
6. What are the main differences between chick and amphibian embryos?
7. Define correlation in the context of development.
8. Define hypoblast and epiblast.
9. Explain the role of cytoplasm in development.
10. Write a brief note on the types of growth.

**Q #3 Long Questions (2 x 5 = 10)**

1. Describe the process of regeneration in detail.
2. Explain the developmental processes in a chick.

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