Chapter No.21 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. During which phase does the number of chromosomes double? A) G1 phase B) G2 phase C) S phase D) G0 phase 2. Which phase is characterized by extensive metabolic activity? A) G1 phase B) G2 phase C) S phase D) G0 phase 3. The syndrome characterized by trisomy of chromosome 21 is known as? A) Turner's syndrome B) Down syndrome C) Klinefelter syndrome D) None 4. In plants, meiosis is primarily involved in the formation of? A) Gametes B) Spores C) Zygotes D) Embryos 5. How many cells does each diploid cell produce after meiosis? A) 2 cells B) 3 cells C) 4 cells D) 8 cells 6. During which phase C) Anaphase D) Telophase P) Somatic cells 7. What type of cells are primarily affected by cancer-causing mutations? A) Sex cells B) Malignant cells C) Reproductive cells D) Somatic cells 8. What term describes the division of the nucleus during cell division? A) Cytokinesis B) Karyokinesis C)	me:	Subject: Biology	Class: 12 th	Time: 80 minutes	Total Marks:	40
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O #2 Short Questions (2 x 10 = 20)					ies	

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

1. Describe the process of meiosis and explain its biological significance.

2. Explain mitosis and discuss its importance in cellular function.

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