

**BCM SCHOOL BASANT AVENUE, DUGRI LUDHIANA**

**XI BIO ASSIGNMENT**

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|---|---|---|
| 1 | Which tissue of animals and plants exhibits meiosis?  | 1 |
| 2 | Given that the average duplication time of E.coli is 20 minutes, how much time will two E.coli cells take to become 32 cells?   | 1 |
| 3 | At what stage of cell cycle does DNA synthesis take place?  | 1 |
| 4 | It is said that the one cycle of cell division in human cells (eukaryotic cells) takes 24 hours. Which phase of the cycle, do you think occupies the maximum part of cell cycle?  | 1 |
| 5 | It is observed that heart cells do not exhibit cell division. Such cells do not divide further and exit _____ phase to enter an inactive stage called _____ of cell cycle.  | 2 |
| 6 | The following events occur during the various phases of the cell cycle, Name the phase against each of the events.<br>a. Disintegration of nuclear membrane _____<br>b. Appearance of nucleolus _____<br>c. Division of centromere _____<br>d. Replication of DNA _____ | 2 |
| 7 | How does movement of chromosome occur during mitotic phase?   | 2 |
| 8 | How does cytokinesis in plant cells differ from that in animal cells?   | 3 |
| 9 | Comment on the statement – Telophase is reverse of prophase.  | 3 |

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