

O. P. JINDAL SCHOOL, SAVITRI NAGAR

Periodic Test -III Round -I (2025 – 2026)

Class: XI

MM:20

Subject: Biology

Time: 1 Hour

General Instructions:

- Question paper contains 03 Sections (Section – A, Section – B, Section – C)
 - Section A – Multiple Choice Questions (MCQ's) carries 01 mark each.
 - Section B – Very Short Answer Type Questions carries 02 marks each.
 - Section C – Short Answer Type Questions carries 03 marks each.
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SECTION-A

Q1. In which phase of cell cycle, DNA content gets doubled ?

- | | |
|----------------|---------------|
| (a) Interphase | (b) Anaphase |
| (c) Prophase | (d) Telophase |

Q2. The phase of cell cycle in which the centriole duplicates in the cytoplasm is

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|--------------|---------------|
| (a) S-phase | (b) G1 -phase |
| (c) G2-phase | (d) G0 -phase |

Q3. Cristae are found in

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|---------------------------|-------------------|
| (a) chloroplast | (b) mitochondria |
| (c) endoplasmic reticulum | (d) golgi complex |

Q4. Nucleolus is present in:

- | | |
|----------------------|-------------------|
| (a) cytoplasm | (b) nucleoplasm |
| (c) nuclear membrane | (d) cell membrane |

Q-5. Which of the following is associated with cell division ?

- | | |
|------------------|-----------------|
| (a) centriole | (b) ribosomes |
| (c) mitochondria | (d) chloroplast |

Q-6. The crossing over takes place during :

- (a) leptotene
- (b) zygotene
- (c) pachytene
- (d) diplotene

SECTION-B

Q-7. Multicellular organisms have division of labour. Explain..

OR

What are plasmids? In which type of cell are they found ?

- Q8. (a) What are kinetochores ?
(b) Mention the significance of meiosis.

- Q-9. (a) How does cytokinesis in plant cells differ from that in animal cells ?
(b) Why is mitosis called equational division?

- Q-10 (a) During which part of interphase does active synthesis of RNA and proteins take place.
(b) What are homologous chromosomes ?

SECTION-C

Q-11. Describe the following words

- (a) Synapsis
- (b) Bivalent
- (c) Chiasmata

Q-12. What is centromere ? How does the position of centromere form the basis of classification of chromosomes?

OR

Describe prophase I of Meiosis I.
