

PRACTICE BITS ON “CELL DIVISION” -1

- 1) Find out the wrong statement** [2]
1) Mitosis was first observed in Plants by Strassburger
2) Meiosis was first observed in Animals by Hoffmeister
3) Meiosis was named by Farmer and Moore
4) Mitosis was named by Fleming
- 2) Chiasma represents the site of** [2]
1) Synapsis 2) Crossing over 3) Linkage 4) All of these
- 3) Largest phase of Meiosis-I is** [1]
1) Prophase-1 2) Metaphase-1 3) Anaphase-1 4) Telophase-1
- 4) In sexually reproducing organisms the chromosome number is maintained by**
1) Mitosis & Fertilisation 2) Meiosis & Fertilisation [2]
3) Mitosis & Meiosis 4) Karyokinesis & Cytokinesis
- 5) Meiosis converts** [2]
1) Gametophyte to Gametophyte 2) Sporophyte to gametophyte
3) Gametophyte to sporophyte 4) Sporophyte to sporophyte
- 6) Crossing over occurs between** [4]
1) Sister chromatids of homologous chromosomes
2) Non- sister chromatids of non-homologous chromosomes
3) Sister chromatids of non-homologous chromosomes
4) Non- sister Chromatids of homologous chromosomes
- 7) Homologous chromosomes move to opposite poles during** [2]
1) Anaphase 2) Anaphase-I 3) Anaphase-II 4) All of these
- 8) Centromere does not divide in** [2]
1) Mitosis 2) Meiosis -1 3) Meiosis-II 4) None of these
- 9) Nuclear envelope and nucleolus disappear during** [4]
1) Prophase 2) Prophase-1 3) Prophase-II 4) All of these
- 10) “Double metaphasic plate” is found in** [2]
1) Metaphase 2) Metaphase-1 3) Metaphase-II 4) All of these
- 11) Identify the mismatch** [3]
1) Zygotene – Synapsis 2) Pachytene - crossing over
3) Leptotene – Chiasma 4) Diakinesis - Terminalisation of chiasmata
- 12) Genetic information is transferred from zygote to all body cells by** [1]
1) Mitosis 2) Meiosis 3) Crossing over 4) Amitosis

- 13. Which of the following inhibits the spindle fibre formation** [4]
1) Colchicine 2) Cyanides 3) Azides 4) All of these
- 14) In a tetraploid cell meiosis occurs, what is the ploidy of daughter nuclei formed after meiosis is** [2]
1) Haploid 2) Diploid 3) Triploid 4) Tetraploid
- 15) At Anaphase-II each chromosome contains** [1]
1) 1 DNA molecule 2) 2 DNA molecules 3) 3 DNA molecules 4) 4 DNA molecules
- 16) Nuclear envelope and nucleolus disappear during** [4]
1) Prophase 2) Pro-I 3) Pro-II 4) All of these
- 17) Meiosis is absent in** [4]
1) Sporocytes 2) Gametocytes (3) PMC 4) Prokaryotes
- 18) Find out the mismatch** [4]
1) Anaphase-shortest phase of 'M' phase 2) G₁-Longest phase of Inter phase
3) Prophase-Longest phase of 'M' phase 4) G₂-Longest phase of Inter phase
- 19) Initiation of spindle fibre formation during mitosis occurs in** [1]
1) Prophase 2) Metaphase 3) Ana phase 4) Telophase
- 20) In which phase of cell cycle RNA polymerase is active?** [4]
1) G₁-Phase 2) S-Phase 3) G₂ -Phase 4) All of these
- 21) On treatment with colchicine a pollen grain transforms into** [2]
1) Haploid 2) Diploid 3) Triploid 4) Polyploid
- 22) Nucleosomes are formed during** [3]
1) G₁-Phase 2) G₂-Phase 3) S-Phase 4) M-phase
- 23) Cancer is a** [3]
1) Uncontrolled DNA replication 2) Uncontrolled Meiosis
3) Uncontrolled Mitosis 4) Totipotency
- 24) During normal mitosis what occurs first?** [4]
1) Spindle formation 3) DNA replication
2) Chromosome duplication 4) RNA & protein synthesis
- 25) Phragmoplast is found during mitosis in** [4]
1) Animal cells 2) Prokaryotes 3) All Eukaryotes 4) Eukaryotic plant cell
- 26) Cell division is absent in the cells of** [2]
1) Liver 2) Brain 3) Skin 4) Bone marrow

27) A somatic cell dividing mitotically, undergoes karyokinesis but fails to undergo cytokinesis. The resultant cell will have [3]

- 1) 1 diploid nucleus 2) 2 haploid nuclei
- 3) 2 diploid nuclei 4) 1 tetraploid nucleus

28) Coenocytic condition is formed due to [2]

- 1) Cytokinesis is not followed by karyokinesis
- 2) Karyokinesis is not followed by cytokinesis
- 3) Both Karyo kinesis & Cytokinesis are not occurred
- 4) Both Karyo kinesis & Cytokinesis are occurred

29) Nuclear membrane disappears at late prophase and re appears at the end of the telophase. From where does these nuclear membrane arise? [3]

- 1) Synthesized in cytoplasm
- 2) synthesized in nucleus
- 3) formed from ER and old nuclear membrane pieces
- 4) formed from Golgi complex

30) Find out the wrong statement [2]

- 1) Sporic meiosis occurs in spores
- 2) Zygotic meiosis occurs in Zygote
- 3) Gametic meiosis occurs in Gametes
- 4) Meiosis occurs in PEN during endosperm formation

ALL THE BEST

**By
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