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CLASS XI- BIOLOGY

1-Genetic recombination occurs during

a-Zygotene b-Diplotene c-Pachytene d-Metaphase I

2-Astral rays are formed of

a-Microfilaments b-Microvilli c-Microtubules d-Intermediate filaments

3-A cell divides every minute. It will fill a 100ml beaker in one hour. How much time would it take to fill 50ml beaker?

a-30 minutes b-48 minutes c-50 minutes d-59 minutes

4-Which stage is marked by terminalisation of chiasmata?

a-Zygotene b- Pachytene c-Diplotene d-Diakinesis

5-What is the stage of meiosis where number and shape of chromosomes can be observed?

a-Telophase b-Anaphase I c-Metaphase d-Prophase I

6-DNA differs from RNA in having

a-Uracil b-Thymine c-Adenine d-Guanine

7-Proteins are a polymerization product of

a-Monosaccharides b-Muramic Acid c-Amino Acid d-All the above

8-Fibrous protein is

a-Haemoglobin b-Histone c-Globulin d-Collagen

9-Joining repeating units for formation of a macromolecule is called

a-Polymorphism b-Condensation c-Aggregation d-Polymerisation

10-Enzymes involved in transfer of electrons belong to

a-Hydrolase b-Desmolase c-Transaminase d-Dehydrogenase

11-Phospholipids are

a-Amphipathic b-Amphibolic c-Hydrophobic d-Hydrophilic

12-Distance between two adjacent Nitrogen bases of DNA is

a-2.4 Å b-3.4 Å c-24 Å d-34 Å

13-ATP is

a-Purine base b-Nucleoside c-Nucleotide d-Nucleosome

14-The most abundant organic molecule present on earth is

a-Protein b-Lipid c-Cellulose d-Steroids

15-At what stage a grown up cell divides?

16-Comment upon: Cell division is a continuous process.

17-What marks the transition between a-Zygotene and Pachytene b-Mitotic Metaphase and Anaphase

18-Which cells of our body do not divide?

19-What does a bivalent of meiosis-I consist of?

20-The chromosomes appear to be beaded at which stage?

21-Explain diakinesis of meiosis-I division.

22- Name the six classes of enzymes.

23-Where is Glycogen found in the body?

24-What provides roughage fiber in our diet?

25-Peptide bonds are formed between two groups. Name them.

26- Distinguish between prosthetic group and co-factors.

27-What is cholesterol? Give it's functions and disorders produced by it in the human body.

28-Define the terms a-Active site b-Activation energy

29-What do you understand by the antiparallel arrangement of DNA strands?

30-What is competitive inhibition?