

ZOOLOGY CORE SEM-6

Core course 13

① Topic - Mechanism of DNA Replication in Prokaryote.

Initiation of replication, involves three steps:

1. Recognition of the origin (eg. E. coli)

2. opening of duplex

3. Capture of DnaB Protein, which unwinds DNA in 5'-3' direction.

1. Prepriming and Priming.

2. Formation and Pre-initiation and initiation complexes.

3. Elongation of DNA chain

4. Termination of DNA replication.

② Topic - Transcription in Prokaryotes.

① Binding of RNA Polymerase holoenzyme to a Promoter site.

2. unwinding of DNA, leading to separation of two DNA strands, of which only one is copied.

3. Dissociation of sigma factor

4. Elongation of RNA transcript with the help of core enzyme, and some other proteins.

5. Termination of mRNA synthesis.

③ DNA fingerprinting

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Core course - 14

① Entamoeba histolytica

- (a) Structure
- (b) Life-cycle
- (c) Pathogenicity
- (d) Clinical features
- (e) Prophylaxis
- (f) Control

2. Taenia

- (a) Structure
- (b) Life-cycle
- (c) Pathogenicity
- (d) Clinical feature
- (e) Prophylaxis
- (f) Control

3. Vaccine and Vaccination.