

Question 12

Question Bank For PG Course

Zoology

Paper-3B

GENETICS AND MOLECULAR BIOLOGY : PGZO-IIIB

Question 1
Who proposed the phrase 'central dogma' and when?
Question 2
The proofreading of DNA during replication occurs in which direction and activity?
Question 3
State the protein component of Telomerase and its function.
Question 4
In prokaryotes, how transcription termination occurs through stem-loop structure?
Question 5
Name the universal transcription factor that can bind to RNA-Pol I, II & III.
Question 6
Name the DNA binding motif present in homeodomain proteins.
Question 7
Which sequences are involved in recognizing splicing sites?
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Question 8
Where the unusual bases like inosine, pseudouridine, dihydrouridine etc. are found?
Question 9
Questions
Among the sites of ribosome which one is occupied by the initiator tRNA in the translation?
Question 10
State the full form of RISE and where it acts?
Question 11
Mention the components of ribozyme and give example.

Where RecA protein is found and in which process it is involved?
Question 13
'Transcriptome' analysis means
Question 14
In 'replication' the RNA-primer removal and gap filling occur by which enzymes?
Question 15
Who catalyses the peptidyl bond formation in 'translation'?
Question 16
In which year Watson-Crick Model of DNA double helix was published?
Question 17
Who first synthesized the DNA polymers in vitro?
Question 18
Where do we found theta replication?
Question 19
Which protein stabilizes replication fork by binding with single stranded DNA?
Question 20
What is the function of XIST-RNA?
Question 21
Mention which subunit of prokaryotic transcription factor is responsible for the initiation of the process?
Question 22 Which RNA polymerase is responsible for transcription of ribosomal RNA?
Question 23
What is the function of PAP protein?
Question 24
What is the source of aminoacyl group of aminoacyl-tRNA?
Question 25

What are the rRNAs of large subunits of eukaryotic ribozomes?

Question 26
Name an enzyme responsible for siRNA production.
Question 27
Give an example of ribozyme.
Question 28
Name a protein which can recognize a holliday junction?
Question 29
What is the cause of xerodermapigmentatosum?
Question 30
In which technique 'random' primer is used?