2024

Gi-SxWi . (FYUGP)

RMA De Cartina (15th Semester) or AMS

RNA processing ANA

ZOOLOGY

(Major) rent elements required

3. What are the Paper Code : ZOO/C11(T)

eldstime di Molecular Biology) moitslensut

Full Marks: 75 Pass Marks: 40%

Time: 3 hours

The figures in the margin indicate full marks for the questions side W

- 1. Write notes on the following: 7½×2=15
 - (a) Watson and Crick model of DNA (b) RNA priming AMR lo sesson ont

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5+10=15

71/4×2=15

Enumerate the mechanism of DNA replication in seukaryotes with proper diagrammatic representations. 15

2. What is promoter region? Discuss the mechanism of transcription in prokaryotes of the with proper illustrations. 1+14=15

(Turn Over) L25/270

Or

Write notes on the following:

7½×2=15

- (a) RNA polymerase and their functions
- (b) RNA processing
- 3. What are the different elements required for translation? Discuss the process of translation in prokaryotes with suitable diagram.

 5+10=15

Or

Write notes on the following:

7½×2=15

- (a) Properties of genetic code
- (b) Wobble hypothesis
- 4. Write a note on introns and exons. Discuss the process of RNA editing. 7½+7½=15

Or

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Elaborate pyrimidine dimerization and mechanism of DNA mismatch repair. 5+10=15

numetic sepassentations.

5. What is lac operon? Discuss the principles of transcriptional regulation in prokaryotes.

2+13=15

FI=CXSFT

Or

Write notes on the following:

7½×2=15

- (a) Gene silencing
- (b) Genetic imprinting

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