HIGHER SECONDARY (SECOND YEAR) UNIT TEST-III

TIME: 1.30 Hrs. MAX.MARKS: 50 ZOOLOGY **PART-I** ANSWER ALL THE QUESTIONS 10X1=10 1 Meselson and Stahl's experiment proved a)Transduction b)Transformation c)DNA is the genetic material d)Semi-Conservative nature of DNA replication 2 When Lactose is present in the culture medium a)Transcription of lac y,z,a genes occurs b)Repressor is unable to bind with operator c) Repressor is able to bind with operator d)Both (a) and (b) are correct 3 Protein chain formation occur by a)Replication b)Transcription c)Duplication d)Translation 4 Which of the following is the correct sequence of event with reference to central dogma? a)Transcription,translation,replication b)Transcription,replication,translation c)Duplication,translation,transcription d)Replication,transcription,Translation 5 An operon is a a)Protein that suppresses gene expression b)Protein that accelerates gene expression c)Cluster of structural gene with related function d)Gene that switched other genes on or off. 6 The first life on earth originated a)in air b)on land c)in water d)on mountain 7 The phenomenon of "Industrial Melanism" demonstrates a)Natural selection b)Induced mutuation c)Reproduction isolation d)geographical isolation 8 The golden age of reptiles was a)Paleozoic era b)Mesozoic era c)Cenozoic era d)All the above 9 When Hardy Weinberg's not at equilibrium in a population a)Organism select and mate together b)No mutation c)Migration d)Very large population size 10 Who published the book ,Origin of Species by natural selection a)Charles Darwin b)Lamarck c)Weismann d)Hugo de Uries

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6X2=12

PART-II

ANSWER ANY SIX QUESTIONS

- 11 What is transformation?
- 12 Differentiate between nucleoside and nucleotide.
- 13 Define Ribozyme.
- 14 What is ORF?
- 15 State theory of biogenesis.
- 16 Mention Hardy Weinberg's assumptions.
- 17 How DNA fingerprinting is used in Pedigree analysis.

PART-III

ANSWER ANY SIX QUESTIONS

- 18 Write a short note of on RNA world.
- 19 Explain inititation of translation.
- 20 What are the main goals of Human genome project
- 21 Explain the origin of life in view of oparin and Haldine.
- 22 Give a note on Lamarck's theory with its objection.
- 23 Explain Hardy Weinberg principle.
- 24 Describe process of transcription in prokaryotes.

PART-IV

ANSWER ANY TWO QUESTIONS

- 25 Describe Hershey chase experiment on T2 bacteriophage.
- 26 Explain Lac operon model with suitable diagram.
- 27 Give an account on Darwin's theory of Natural selection.

6X3=1

6X3=18