B.Sc Zoology Sem V General Internal Assessment 2022-2023

SEC-3 (Sericulture)

Full marks: 5x(1+1) = 10

Time:30 min

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3, (a) Name different forms of bistone proteins.

Answer any 5 questions.

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- 1. (a) What is the scientific name of Uzi fly? (b) Write the name of 2 mulberry varieties?
- 2. (a) Give 1 method to control Uzi fly. (b) What is RKO?
- 3. (a) What is a Maggot? (b) Write one method of cocoon storage.
- 4. (a) Name the different stages in the life cycle of Uzi fly. government is a sanchagada ada olin M (d)
 - (b) Define mountage.
- 5. (a) How does Uzi fly enter into silkworm body? HOAT SUZ to smol that odd at male (a) .c
- 6. (a) What is Sericulture?
 - (b) What do you mean by pruning?
- 7. (a) Draw and label the life cycle of silkworm.
 - (b) What are the food plants of Tasar silk moth?

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DSE-1 (Animal Biotechnology)

Full marks: 5x(1+1) = 10

Time:30 min

- 1. (a) What is the combined base pair length of 23 pairs of human chromosomes?
 - (b) Define Xenotransplantation.
- 2. (a) What is the reason for c value paradox?
 - (b) What is chimera?
- 3. (a) Name different forms of histone proteins.
 - (b) Differentiate between transgenic mice and knockout mice.
- 4.(a) What does the nucleosome core particle consist of?
 - (b) Write the importance of beta lactoglobulin gene.
- 5. (a) What is the full form of SDS PAGE? thed arrowallis on it rains all is I each well (a) 2
 - (b) What is oncomouse?
- 6. (a) What is electroporation?
 - (b) Write the limitation of DNA microinjection.
- 7. (a) Name 2 non histone proteins necessary for eukaryotic genome organization.
 - (b) Write 2 application of transgenic animal.

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CC-11 (Molecular Biology)

Full marks: 5x(1+1) = 10

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Time:30 min

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tashporps viringed to plot off acted M (n)

- 1. (a) Define split gene?
 - (b) What is A and B DNA?
- 2. (a) What is capping?
 - (b) Differentiate between semiconservative and Disruptive DNA replication.
- 3. (a) Differentiate between self splicing and non self splicing.
 - (b) What is Chargaff's rule?
- 4.(a) Write the function of RNAse enzyme.
 - (b) What is the role of Telomerase in replication?
- 5. (a) What is RNA editing?
 - (b) Differentiate between 3' to 5' endonuclease and 5' to 3' endonuclease activity in DNA replication.
- 6. (a) Write the difference between inducible operon and repressible operon.
 - (b) Differentiate between the activity of DNA Polymerase I and DNA Polymerase delta.
- 7. (a) What is leader sequence?
 - (b) What is Tilt and Rise of DNA?

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CC-12 (Genetics)

Full marks: 5x(1+1) = 10

0 (= (Time:30 min

2. (a) Write the ingrantance of Parilla porguedla.

- 1. (a) Give an example of co-dominance in human body. I saling to omiss of the last of the
 - (b) In which organism do you find Kappa particles? They bask yet assert port of the (d)
- 2. (a) Define Epistasis.
 - (b) What type of extra chromosomal inheritance is seen in Chlamydomonas?
 - 3. (a) What is lethal gene?
 - (b) Name the scientist who isolated streptomycin sensitive mutant of Chlamydomonas.
 - 4.(a) What is pseudoallele?
 - (b) What is non-mendelian inheritance?
 - 5. (a) Give any 2 examples of sex linked inherited disease. The best linked inherited disease.
 - (b) What is the full form of MERRF disease?
 - 6. (a) Give an example of Pleiotropism. Pag an borobia man accompany angustropical as valva in a
 - (b) What is the full form of LHON?
 - 7. (a) Write Mendel's law of segregation. Although normal in annual administration and annual annual
 - (b) Name a disease that shows maternal inheritance.

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DSE-1 (Applied Zoology)

Full marks: 5x(1+1) = 10

0 = (Time: 30 min)

(b) What is the full form of MERRE disease?

- 1. (a) Write scientific name of pulse beetle. Issued as sousmirrob-on to alguare as gold on the
 - (b) What do you mean by 'dead end' host? roug agon't bell new of customagne riout work of
- 2. (a) Write the importance of Pyrilla perpusilla.
 - (b) Differentiate between primary and secondary host. The companies the same in same i
- 3. (a) Write the scientific name of rice weevil.
 - (b) What is commensalism? It is a trigger who consequents hotalist off with one constitution of the commensalism?
- 4.(a) Write about the role of Tribolium sp. as pest.
 - (b) What is signet ring stage?
- 5. (a) Write about the indirect damage done by rice weevil. I was to self-may 1 years of the control of the con
 - (b) What is mutualism?
- 6. (a) Why is Helicoverpa armigera considered as pest.
 - (b) What is the product of erythrocytic schizogony.
- 7. (a) Write the scientific name of lemon butterfly. makes regarded well a leader of the scientific name of lemon butterfly.
 - (b) What is parasitism?