Rabindra Mahavidyalaya

Champadanga, Hooghly

B.Sc Zoology Sem III Honours

Internal Assessment 2022-2023

SEC-1 (Sericulture)

Full marks: 5x(1+1) =10 **Time:30 min**

Answer any 5 questions.

1. (a) Name 2 sericulture research centres in India.
   (b) What is RKO?

2. (a) Write the full form of CSB and CDP.
   (b) Write the name of 2 mulberry varieties.

3.(a) What is KSP and NSP?
   (b) Write one method of coccon storage

4.(a) Write the difference between mulberry and non-mulberry sericulture.
   (b) Define mountage.

5. (a) What is maggot?
   (b)Define voltinism.

6. (a) Give one method to control Uzi fly?
   (b) Write the scientific name of mulberry silkmoth.

7. (a) What is the scientific name of Uzi fly?
   (b) Draw the life cycle of silkworm.

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CC-6 (Animal Physiology)

Full marks: 5x(1+1) =10 **Time:30 min**

Answer any 5 questions.

1. (a) Define corpus albicans.
   (b) Define tissue.

2. (a) What is zona pellucida?
   (b) Name the 4 types of basic tissues?

3. (a) Differentiate primary follicle and Graffian follicle.
   (b) Give one characteristic feature of epithelial tissue.

4. (a) What is theca cells?
   (b) Give 2 functions of epithelial tissue.

5. (a) Define Epididymis?
   (b) What is carcinoma?

6. (a) Write function of seminiferous tubule.
   (b) Draw a labeled diagram of squamous epithelium.

7. (a) What is tunica albuginea?
   (b) Where is transitional epithelium located?

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CC-5 (Chordates)

Full marks: 5x(1+1) =10 **Time:30 min**

Answer any 5 questions.

1. (a) What is parental care?
   (b) Write systematic position of *Ascidia* sp.

2. (a) Name different types of parental care in amphibians.
   (b)Write the function of Mullar's organ

3. (a) Give scientific name of an amphibian that can build a nest.
   (b) Who are known as Tunicata?

4.(a) How do you classify Amphibia?
   (b)Write any 2 important features of subphylum Cephalochordata.

5. (a) Give scientific name of midwife toad. Why is it called so?
   (b)Write systematic position of *Myxine* sp.

6. (a) Mention 2 salient features of class Amphibia.
   (b)Write the function of oral cirri.

7. (a) Give one example (scientific name) of each living order of class Amphibia.
   (b) What is myosepta?

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CC-7 (Biochemistry)

Full marks: 5x(1+1) =10 **Time:30 min**

Answer any 5 questions.

1. (a) Name one fibrous and globular protein.
   (b) Name an aldose sugar.

2. (a) What is beta turn or beta loop?
   (b) Name one pentose sugar.

3. (a) What are heterocyclic amino acids?
   (b) What is chiral carbon?

4. (a) Which chemical groups are involved in the formation of peptide bonds?
   (b) What colour is formed when glucose is heated with Benedict's solution?

5. (a) Give 2 examples of sulphur containing amino acids.
   (b) For Lowry's method , what are the components of solution 1.

6. (a) What is macropeptide?
   (b) For Lowry's method , what are the components of solution 2.

7. (a) Give the example of one secretory glycoprotein and one plasma glycoprotein.
   (b) Why fructose can form furan and glucose can form pyran ring?

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GE/CC-3 (Physiology and Biochemistry)

Full marks: 5x(1+1) =10 Time:30 min

Answer any **5** questions.

1. (a) What is resting membrane potential?
   (b) Name an aldose sugar.

2. (a) Define Schwann cell.
   (b)Name one pentose sugar.

3. (a) Write function of Troponin.
   (b) What is chiral carbon?

4.(a) Write the role of calcium ion in muscle contraction.
   (b) What colour is formed when glucose is heated with Benedict solution?

5. (a) What is graded potential?
   (b) For Lowry's method, what are the components of solution 1?

6. (a) Differentiate between Actin and Myosin.
   (b) For Lowry's method, what are the components of solution 2?

7. (a) Define Sarcomere.
   (b) Why fructose can form furan and glucose can form pyran ring?