

HIGHER SECONDARY PRACTICAL EXAMINATION FEB/MARCH - 2020

HSE – II

TOTAL SCORE:20

TIME – 1 ½ Hrs

ZOOLOGY

INSTRUCTIONS

- All questions are compulsory
- Materials needed will be provided in the center
- Preparation time 10 minutes

1. Identify the picture/photograph of the vertebrate animal. Score 1
Note one identifying character/adaptation/economic importance of it. Time : 4 minutes
Identification: ½ one value point : ½
2. Identify the picture/photograph of the invertebrate animal. Score 1
Write one identifying character/adaptation/economic importance of it. Time : 4 minutes
Identification: ½ one value point : ½
3. Identify the slide of given tissue .Sketch and label any two parts. Score 2
Identification: 1 sketch and labeling: ½+½ Time:7 minutes
4. Identify the labeled part of model of human organ .Write one function of the labeled part. Score 1
Identification: ½ one function : ½ Time : 4 minutes
5. Identify the type of joint(Based on Anatomy) .Write its functional peculiarity(Physiology). Score 1
Identification: ½ one value point : ½ Time : 4 minutes
5. Identify the slide related to Embryology. Sketch and label any two parts. Score 2
Identification: 1 sketch and labeling: 1½+½ Time:7 minutes
7. Identify the pathogen, name the disease caused by it and write any one symptom of disease. Score 2

Identification: ½

Disease: ½

symptom:1

Time : 4 minutes

OR

Identify the homologous/Analogous organ from the given pictures/Charts. Write one evolutionary significance of it(Vertebrate heart/Vertebrate brain/Forelimb of Whale/Cheetah and wings of butterfly and birds are given).

Identification: 1

significance:1

8.Draw the digestive system of Cockroach. Label 4 parts suggested.

Score 3

Diagram:1

parts:4x½

Time:15minutes

9.Two sample solutions A and B are given. Identify the sample which contains Glucose/Starch/Protein/Bile salts/Urea.

OR

Two Urine samples A and B are given. Identify the urine of diabetic patient from the samples using the reagents provided.

OR

Two Urine samples A and B are given. Identify the sample which contains albumin using the reagents provided.

Score2

Experiment:1

Procedure: ½

Result:½

Time:15minutes

10.Prepare a stained slide of human cheek epithelium. Draw a single cell and label one part.

Score2

OR

Prepare a slide of stained human blood smear .Identify any one cell. Draw one WBC and label one part.

Slide Preparation :1

Diagram: ½

Labeling: ½

Time:15minutes

11.Certified Practical Diary

Score2

12.Viva voce to test the knowledge of Experiments in the practical in zoology.

Score1

Time :1 minute.