

HIGHER SECONDARY PRACTICAL EXAMINATION

2019 MARCH

Score:20

ZOOLOGY

Time:1hr30mts

INSTRUCTIONS

- All the questions are compulsory
- The materials needed will be provided in the centre
- Preparation time 10minutes

1. Identify the picture/photograph of the vertebrate animal. **Score:1**

Note one identifying character/adaptation/economic importance of it. **Time: 4minutes**

Identification: $\frac{1}{2}$ One value point: $\frac{1}{2}$

2. Identify the picture/photograph of the invertebrate animal. **Score:1**

Write one identifying character/adaptation/economic importance. **Time: 4minutes**

Identification: $\frac{1}{2}$ One value point: $\frac{1}{2}$

3. Identify the slide of given tissue .Sketch and label any two parts **Score:2**

Identification: 1 sketch and labeling: $\frac{1}{2}+\frac{1}{2}$ **Time:7minutes**

4. Identify the labelled part of the model of human body part . Write one function of the labelled part. **Score:1**

Identification: $\frac{1}{2}$ One Function: $\frac{1}{2}$ **Time:4minutes**

5. Identify the type of joint (based on anatomy) .Write its functional peculiarity (physiology) **Score:1**

Identification: $\frac{1}{2}$ One value point: $\frac{1}{2}$ **Time:4minutes**

6. Identify the slide of embryology .Sketch and label any two parts **Score:2**

Identification: $\frac{1}{2}$ sketch and labeling: $1 \frac{1}{2}+\frac{1}{2}$ **Time:7minutes**

7. Identify the pathogen, name the disease caused by it and write any one symptom of disease **Score:2**

Identification: $\frac{1}{2}$ Disease: $\frac{1}{2}$ symptom: 1 **Time:4minutes**

OR

Identify Homologous/Analogous organ from the given pictures /Chart. Write one evolutionary significance of it (Vertebrate heart/Vertebrate brain/forelimbs of whale/cheetah

and wings of butterfly and bird are given).

Identification: 1

Significance:1

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

Score:3

Diagram:1

Parts: 4x1/2

Time:15minutes

OR

Draw the mouth parts of Cockroach . Label 4 parts of it.

9. Two urine samples A and B are given .Identify the presence of the Albumin in the samples using the reagents given.

Score:2

OR

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

OR

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

Experiment:1

Procedure:1/2

Result:1/2 Time:15minutes

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

OR

Score:2

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

Slide preparation:1

Diagram:1/2

Labelling:1/2

Time15: minutes

11. Certified Practical Diary.

Score:2

12. Viva voce to test the knowledge in the experiments in the zoology practical. Score:1

Time:1minute