

HIGHER SECONDARY PRACTICAL EXAMINATION
MARCH - 2018
Zoology

HSE : II

SCORE : 20
Time - 1 1/2 Hours

INSTRUCTIONS

- All the questions are compulsory
 - The materials needed will be provided in the Centre
 - Preparation time 10 minutes
1. Identify the given picture/ photograph of the invertebrate animal Score : 1
Write one identifying character/one economic importance/one adaptation
Identification : 1/2 One value point : 1/2 **Time : 4 minutes**

 2. Identify the given picture / photograph of the vertebrate animal Score : 1
Write one identifying character/one economic importance/ one adaptation
Identification : 1/2 One value point : 1/2 **Time : 4 minutes**

 3. Identify the marked part of the given model. Write one physiological function of the marked part Score : 1
Identification : 1/2 Function : 1/2 **Time : 4 minutes**

 4. Identify the type of joint. Write its functional peculiarity Score : 1
Identification : 1/2 One value point : 1/2 **Time : 4 minutes**

 5. Identify the slide of given tissue. Sketch and label any two parts Score : 2
Identification : 1 Sketch and labelling : 1/2 + 1/2 = 1 **Time : 7 minutes**

 6. Identify the pathogen, name the disease caused by it and write one symptom. Score : 2
Identification : 1/2 Disease : 1/2 Symptom : 1 **Time : 4 minutes**
Identify the analogous / homologous organ from the given pictures / Chart. Write one evolutionary significance of it. (Pictures of Vertebrate heart / vertebrate brain / forelimbs of whale and cheetah / wings of butterfly and bird are given)
Identification : 1 Significance : 1

7. Identify the given embryology slide. Sketch and label one part Score : 2
 Identification : $\frac{1}{2}$ Sketch and labelling : $1 + \frac{1}{2} = 1\frac{1}{2}$ **Time : 7 minutes**
8. Draw the digestive system of cockroach. Label four parts mentioned. Score : 3
 OR
 Draw the mouth parts of cockroach. Label four parts
 Diagram : 1 Label four parts : $\frac{1}{2} \times 4 = 2$ **Time : 15 minutes**
9. Two samples A and B are given. Identify the sample with glucose / protein / starch / bile salts / urea Score : 2
 OR
 Two urine samples A and B are given. Identify the presence of albumin in the sample using the reagents provided
 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 : $\frac{1}{2}$ Result : $\frac{1}{2}$ **Time : 15 minutes**
10. Prepare a stained slide of your cheek epithelium. Draw and label one part of single cell. Score : 2
 OR
 Prepare a thin film of your blood smear on a slide. Identify any one cell. Draw and Label any one WBC
 Slide preparation : 1 Diagram : $\frac{1}{2}$ Labelling : $\frac{1}{2}$ **Time : 15 minutes**
11. Certified practical Diary Score : 2
12. Viva voce based on awareness on experiments in Zoology Practical Score : 1
Time 1 minute