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63/1(SEM-5)SEC3/ZOOSE5032

2024

ZOOLOGY

Paper : ZOOSE5032

(Medical Diagnostics)

Full Marks : 50

Pass Marks : 20

Time : 2 hours

The figures in the margin indicate full marks for the questions.

1. Choose the correct option: **(any five)**
1×5=5

(a) The hormone insulin is produced by-

(i) Thyroid

(ii) Pancreas

(iii) Liver

(iv) Pituitary

- (b) The plasma responsible for blood coagulation is
- (i) Fibrinogen
 - (ii) Globulin
 - (iii) Serum Amylase
 - (iv) Albumin
- (c) Insulin deficiency is associated with
- (i) Reduced lipolysis
 - (ii) Increased ketogenesis
 - (iii) Reduced gluconeogenesis
 - (iv) Reduced Proteolysis
- (d) Which device is used to measure blood pressure ?
- (i) Salinometer
 - (ii) Ammeter
 - (iii) Sphygmomanometer
 - (iv) Photometer
- (e) Which organ does hepatitis affect?
- (i) Heart
 - (ii) Brain
 - (iii) Liver
 - (iv) Kidneys

- (f) Blood is a which type of tissue?
- (i) Epithelial Tissue
 - (ii) Connective Tissue
 - (iii) Both (i) and (ii)
 - (iv) None of the above
- (g) The BCG vaccine is administered for immunity against-
- (i) Malaria
 - (ii) Tuberculosis
 - (iii) Jaundice
 - (iv) Hepatitis

2. Answer the following questions briefly: **(any five)** 2×5=10

- (a) What do you mean by abnormal constituents of urine?
- (b) What is the difference between benign and Malignant tumors ?
- (c) What are the preventive measures for tuberculosis?
- (d) What happens if the platelet count is low?

- (e) What is the purpose of using PET scan?
- (f) Write the functions of Basophil and Eosinophils.
- (g) What is the principle of differential leukocyte count?

3. Answer the following questions : **(any five)**
5×5=25

- (a) Explain in brief the physical characteristics of urine. 5
- (b) Describe in short about the symptoms and prevention of Hepatitis.
- (c) How do you prepare a blood smear using Leishmann's stain?
- (d) Describe metastases in brief.
- (e) Write a short note on type I Diabetes.
- (f) Describe briefly how to use a glucometer kit for testing of blood glucose step by step.
- (g) Discuss in brief about Packed cell volume.
- (h) Explain by a note about MRI.

- (i) Write the difference between primary and secondary hypertension.

4. Answer **any one** of the following questions:
10×1=10

- (a) Discuss in detail about the composition of blood.
- (b) Explain hypertension, its causes symptoms, diagnosis and prevention.
- (c) What is the erythrocyte sedimentation rate? Discuss the methods used for determination of Erythrocyte Sedimentation Rate. Write its basic principle. 2+5+3=10