

Total No. of Questions : 9]
(2034)

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UG (CBCS) IInd Year Annual Examination

2816

B.Sc. ZOOLOGY

(Medical Diagnostics)

(SEC-I)

Paper : ZOOL 203 TH

Time : 3 Hours]

[Maximum Marks : 70

Note :- Attempt *five* questions in all, selecting *one* question each from Sections-B, C, D and E. Question No. 1 in Section-A is compulsory. Attempt all parts of a question together. Draw suitable diagrams wherever necessary.

Section-A

(Compulsory Question)

1. (A) Do as required :

- (i) The instrument used to measure blood pressure is called as

CH-116

(1)

Turn Over

(ii) Life-span of RBCs is 120 days.

(True/False)

(iii) Increased count of leucocytes is called as

(iv) A biopsy is :

(a) Removal of biological fluid

(b) Removal of an organ

(c) Post-mortem examination

(d) Excision of representative tissue sample

(v) The average pH of normal urine is

(vi) Presence of glucose in urine indicates disease.

(vii) The full form of DASH is

(viii) Tuberculin test is used to detect disease.

(ix) MRI stands for

(x) Uterine fibroid is tumour. $1 \times 10 = 10$

(B) Write brief notes on the following :

(i) Packed cell volume

(ii) HbA1c

$2 \times 2 = 4$

Section-B

2. (a) Give an account of the composition of blood.
- (b) What is ESR ? Explain in detail. 7,7
3. (a) Describe the various abnormal constituents of urine.
- (b) Enumerate various constituents present in urine sediment when observed under a microscope. 7,7

Section-C

4. (a) Explain the types of diabetes, its causes, symptoms, complications, diagnosis and prevention.
- (b) Write a note on Primary hypertension. 10,4
5. (a) Discuss the following briefly :
- (i) Insulin
- (ii) Gestational diabetes mellitus (GDM)
- (b) Discuss the risks and prevention of hypertension. 7,7

Section-D

6. (a) Describe in detail about tuberculosis, its causes, symptoms and prevention.
- (b) Give an account of the causes, symptoms and prevention of hepatitis. 7,7
7. (a) Differentiate between latent TB infection (LTBI) and TB disease (in lungs).
- (b) Write short notes on the following :
- (i) DOTS
- (ii) Risk groups in hepatitis 8,6

Section-E

8. (a) Discuss the types of tumour, their diagnosis, prevention and treatment.
- (b) Give a brief account of metastasis. 10,4
9. (a) Explain MRI and its applications in detail.
- (b) Give an account of PET and its applications. 8,6