UG/4th Sem/ZOO/19

2019

B.Sc. (Hons)

4th Semester Examination

ZOOLOGY

Paper - SEC2T

Full Marks: 40

Time: 2 Hours

ESTD .- 2017

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

Medical Diagnostic Techniques

1. Answer any five questions:

5×2=10

- (a) What is ESR?
- (b) What is PCV?
- (c) Write two abnormal constituents of urine.
- (d) Distinguish between MRI and CT scan
- (e) What is antibiotic sensitivity test?

[Turn Over]

- (f) What is malignant tumor?
- (g) Distinguish between Type I and Type II diabetes mellitus.
- (h) Name the organ which is primarily affected in tuberculosis. State the causative agent of tuberculosis.
- 2. Answer any four questions:

4×5=20

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(a) Below is a list showing certain conditions or constituents of urine which are normally not present in the urine. What does each of these conditions / constituents indicates about the health of an individual?

Condition / Constituents	Indications
i) Urine amount exceeds 2000 ml / 24 hours	ry you revisite (
ii) Sugars in urine	B er toriki (es)
iii) Presence of haemoglobin	
iv) High amount of bilirubin	TalladW (d)
v) Calculi in urine	

(b) What is haemocytometer? Briefly describe the process of platelet counting process. Write the normal value of platelet in blood. 1+3+1=5

- (c) Give a brief account of lipid profiling. Write a short note on abnormality of lipid value in blood.
- (d) Discuss the diagnosis and prevention of Diabetes
 Type I. 2+3
- (e) Define Primary and Secondary hypertension. Write the causes of secondary hypertension.

21/2+21/2

- (f) What is CT scan. Write the application of CT scan in medical diagnostics.
- 3. Answer any one question:

1×10

- (a) Write the name of four different types of malarial parasites. Write the symptoms of malaria infection. Briefly describe Pre-erythrocytic and Erythrocytic cycle of malarial parasite. 2+2+6
- (b) What is cancer? Describe briefly about the detection of cancers? What is metastasis? Briefly describe the principle and functional approach of PET and MRI. 2+2+2+4

Sericulture

5×2=10

21/2+21/2

1. Answer any five questions:

	(a)	What do you mean by rendita? State its utility.
	(b)	Write the names of two non-mulberry silkworm.
	(c)	What is cocoon?
	(d)	What is instar?
	(e)	What is moriculture?
	(f)	Write the name of two important proteins present in silk.
	(g)	Mention the importance of installing P_1 , P_2 and P_3 stations in sericulture.
	(h)	What is Pebrine?
2.	Ans	swer any <i>four</i> questions: $4 \times 5 = 20$
	(a)	Briefly describe different indigenous and exotic
		races of silk moth. $2\frac{1}{2}+2\frac{1}{2}$
	(b)	Distinguish between mulberry and non-mulberry
		silkworm with suitable examples. $2\frac{1}{2}+2\frac{1}{2}$
	(c)	What are the role of temperature and humidity

in silkworm rearing?

(d)	Briefly discuss about the spinning	process of silk
	and storage of silk cocoons.	21/2+21/2

- (e) What is disinfectants? Write the role of formalin and bleaching powder in silk worm rearing process.
- (f) Briefly discuss about the size, shape and construction process of a typical rearing house for silkworm. What is Chandraki?

 4+1

3. Answer any *one* question : 1×10=10

- (a) Describe the life cycle of *Bombyx mori* with suitable diagram. Write short note on voltinism.

 5+2+3
- (b) (i) Name one fungal and one viral diseases of silkworm along with their causative agent, symptoms and control measures. 5
 - (ii) State the location of the silk gland in silkworm.
 - (iii) Give a labelled diagram of a silk gland and mention the functions of each part.

21/2+11/2=4