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B—163—2019

FACULTY OF SCIENCE

B.Sc. (Second Year) (Fourth Semester) EXAMINATION

MARCH/APRIL, 2019

(CBCS/CGPA Pattern)

ZOOLOGY

Paper IX

(Endocrinology, Histology and Biochemistry)

(MCQ+Theory)

(Friday, 5-4-2019)

Time : 2.00 p.m. to 4.00 p.m.

Time—2 Hours

Maximum Marks—40

- N.B. :-**
- (i) All questions are compulsory.
 - (ii) Use separate sheet (OMR) for Question No. 1.
 - (iii) Draw well-labelled diagrams wherever necessary.
 - (iv) All questions carry equal marks.

(MCQ)

1. Select the *correct* answer from the given multiple choice : 10
- (i) Oxytocin hormone is secreted by gland.
 - (A) Adrenal
 - (B) Ovary
 - (C) Thyroid
 - (D) Pituitary
 - (ii) Exophthalmic goitre is caused due to
 - (A) Hypofunction of Thyroid
 - (B) Hyperfunction of Thyroid
 - (C) Hypofunction of Parathyroid
 - (D) Hyperfunction of Parathyroid
 - (iii) Hypofunction of adrenal cortex leads to
 - (A) Addison's disease
 - (B) Cretinism
 - (C) Dwarfism
 - (D) Sterility

P.T.O.

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- (iv) In liver, the wall of sinusoids contains special cells are called as
(A) Kupffer's cells (B) Polygonal cells
(C) Hepatic cells (D) Globlet's cells
- (v) In testis, the wall of seminiferous tubules is lined by cells.
(A) Sertoli cells (B) Germinal cells
(C) Both (A) and (B) (D) None of these
- (vi) Structural and functional units of kidney is
(A) Nephron (B) Sinusoids
(C) Seminiferous tubule (D) Graffian follicles
- (vii) Glucose is stored in the form of glycogen in
(A) Pancreas (B) Bone
(C) Kidney (D) Liver
- (viii) Synthesis of carbohydrates from protein and fats is called
(A) Glycolysis (B) Glycogenolysis
(C) Gluconeogenesis (D) Glycogenesis
- (ix) The transfer of an amino group from one amino acid to keto-acid is called
(A) Deamination (B) Transamination
(C) Ornithine cycle (D) Uric acid cycle
- (x) Excretion of abnormally high amount of ketone bodies in urine is known as
(A) Ketonemia (B) Ketolysis
(C) Ketogenesis (D) Ketonuria

(Theory)

2. Describe the structure and function of Thyroid gland.

10

Or

- (a) Menstrual cycle
(b) Transamination.

WT

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3. Describe the histological structure of mammalian testis. 10

Or

(a) T.S. of Liver

(b) Ketogenesis.

4. Describe in detail glycolysis. 10

Or

(a) Gluconeogenesis

(b) β -oxidation.

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