



**RR-0804**  
**Third Year B. Sc. Examination**  
**March / April – 2010**  
**Bioscience**

Time : 3 Hours]

[Total Marks : 70

**Instructions :**

(1)

<p>નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : <b>T. Y. B. Sc.</b></p> <p>Name of the Subject : <b>Bioscience</b></p> <p>Subject Code No. : <b>0 8 0 4</b> Section No. (1, 2,.....) : <b>Nil</b></p>	<p>Seat No. : <input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/></p> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; text-align: center; width: 100%;">Student's Signature</div>
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- (2) Draw neat and labelled diagram wherever necessary.
- (3) Figures to the right indicate full marks of the question.

1 Answer the following question as directed : 13

(a) Explain :

- (i) Cretinism
- (ii) Ovulation.

(b) Answer in two to three lines only :

- (i) Which hormone is secreted when animal faces an imminent danger?
- (ii) What is the fate of Graafian follicle after ovulation?
- (iii) Write full form of ACTH and MSH.
- (iv) What is the function of calcitonin ? Which cells are responsible for its secretion?

(c) State whether the following statements are true or false :

- (i) Loop of Henle is usually found in the cortex of the kidney.
- (ii) Sertoli cells are responsible for production of male hormone.
- (iii) Deficiency of ADH causes diabetes insipidus.
- (iv) Fertilization proper takes place in fallopian tube.

**2** Answer any **two** of the following : **14**

- (i) Digestion and absorption of protein and lipid.
- (ii) Describe structure of muscle fiber
- (iii) Describe Gastric gland.

**3** Answer any **two** of the following : **14**

- (i) Structure and functions of Neurohypophysis.
- (ii) Functions of Adrenal Gland.
- (iii) Describe structure and functions of Testis.

**4** Give brief account on : **14**  
"Kidney functions Tests"

**OR**

Describe process for collecting CSF sample. Explain how its analysis is useful in clinical diagnosis.

**5** Write short notes : (any **three**) **15**

- (i) Semen analysis and its uses
- (ii) Corpus luteum
- (iii) Somatotropins and its effects
- (iv) Functions of liver
- (v) Structure of Nephron.