

Exam.Code:0906  
Sub. Code: 6248

2014  
B.E. (Biotechnology) Second Semester  
ESBT-201: Basic Bio-Technology

Time allowed: 3 Hours

Max. Marks: 50

*NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Section.*

x-x-x

I. Answer the following briefly:-

- a) How endocrine signal is different from neuronal signal?
- b) What is Purkinje fiber?
- c) What is Rh factor?
- d) What is the cause of hemophilia?
- e) What is major and minor groove?
- f) What are microvilli?
- g) WIPO is -----.
- h) What are the characteristics of an ideal vector?
- i) Give example of two biopolymers.
- j) Who is popularly known as Father of genetics?

**SECTION-A**

2. A) Explain the importance of bone and blood as connective tissue.  
B) How muscle tissue and nerve tissue work hand to hand?  
(5, 5)
3. A) Explain Mendelian genetics with respect to dihybrid cross.  
B) Compare between codominance and incomplete dominance.  
(5, 5)
4. A) Describe in detail about human digestive system with proper diagram.  
B) Explain importance of pituitary gland as master gland of endocrine system.  
(5, 5)

P.T.O.

(2)

**SECTION-B**

5. A) Compare: GLP and GMP  
B) Discuss about the uses of biodegradable polymers in various biomedical fields. (5, 5)
6. A) Discuss about various vectors in genetic engineering.  
B) What is the importance of cell culture laboratory? (5, 5)
7. A) How to deal with biomedical wastes? Explain in details.  
B) Explain about various biosafety levels that exists in a Biotechnology lab. (5, 5)

x-x-x