

Roll No.

Total Pages : 4

13194/N**L-15/2111****COMMERCIAL BIOTECHNOLOGY**

Paper–XII

Semester–III

Time Allowed : 3 Hours] [Maximum Marks : 75

Note : The candidates are required to attempt **two** questions each from Sections A and B carrying 15 marks each and the entire Section C consisting of 10 short answer type questions carrying 1½ marks each.

SECTION—A

1. (a) Discuss about the scope of Biotechnology in Punjab. 8

13194/N/680/W/210

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- (b) Write note on the role of DBT in development of Biotechnology. 7

2. (a) Discuss in detail the Cartagena Protocol and its significance. 10

- (b) Describe about the different types of Intellectual property. 5

3. What are the different criteria for Patentability? Discuss the different types of patent applications in detail. 15

4. Write notes on the following :

- (a) Patent infringement. 7½

- (b) International depository authorities. 7½

SECTION—B

5. Define the Quality. Discuss the concept, role and importance of Total Quality Management in Industry. 15

13194/N/680/W/210

2

6. (a) Write a detailed note on the contributions of management thinkers in quality Management.

10

(b) Write a short note on the competitive benchmarking.

5

7. (a) What are the four pillars of TQM? Explain different techniques for analyzing quality process.

10

(b) Write note on the requirements of GMP certification.

5

8. Write notes on the following :

(a) ISO 14000 : 2004.

7½

(b) ISO 9000 : 2008.

7½

SECTION—C

9. Write short notes on the following : $10 \times 1\frac{1}{2} = 15$

(i) What do you understand by Biohazards?

(ii) What is IGMORIS?

(iii) What are Trade secret operations?

(iv) What do you understand by Prior art search?

(v) What are Copyrights?

(vi) Mention the basic features of TQM.

(vii) What are some major obstacles to TQM implementation?

(viii) What do you understand by TRIPS?

(ix) Why researches need IPR?

(x) What are the different types of Patents?