

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI**  
(END SEMESTER EXAMINATION)

CLASS: BPHARMACY  
BRANCH: PHARM SCI TECH

SEMESTER: II  
SESSION: SP/2022

SUBJECT: BP205T COMPUTER APPLICATIONS IN PHARMACY

TIME: 2.00 Hour

FULL MARK: 50

A. Short Answers

(Answer six out of eight)

(06 x 05 = 30 marks)

1. Perform : (a) $(1010010001001 / 10)_2 = ( )_2$ (b) $(ABC.EF)_{16} + (498.13)_{10} + (101)_2 - (101)_8 / (11)_2 = ( )_2$ (c) $(466.99)_{10} - (11.11)_8 = ( )_2$ (d) $(1100111.1011)_2 \times (11.011)_2 = ( )_2$
2. Explain in detail, why requirement and feasibility analysis are important when a new project is developed.
3. How is Assembly Language Program executed? Explain in detail. What are the advantages and disadvantages of Assembly language programming over different programming languages?
4. What observation are required for adherence monitoring of a patient. Explain in detail.
5. How Bioinformatics is advantageous when new vaccine and medicine are developed.
6. Discuss what is Loader. How Text Information Management System help to find different kind of Information in Pharmaceutical Science.
7. Justify how Information can be used as Data? Explain with example. What is the difference between HTML elements and Tags with example?
8. What is Server, how it functions. How Mobile Technology is beneficial for Patient Monitoring System and its drawback.

B. Long Answers

(Answer two out of three)

(02 x 10 = 20 marks)

1. (a) Define database Management System? Explain advantages and disadvantage over file-oriented system.	[6]
(b) Define Information? Explain Information gathering process?	[4]
2. (a) Draw DFD for Hospital Management System?	[6]
(b) What are the advantages and disadvantages of Pharma Information System.	[4]
3. (a) What are the advantage and disadvantages of Electronic Prescribing and discharge system.	[4]
(b) Explain 1's and 2's complement? Perform using 1's and 2's complement: (i) $(29)_{10} - (149)_{10} = ( )_2$ (ii) $(289)_{10} - (33.33)_{10} = ( )_2$	[6]

:22/07/2022: