

Total No. of Questions: 3

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Enrollment No.....



Faculty of Pharmacy

End Sem (Even) Examination May-2022

PY3CO33 Computer Applications in Pharmacy

Programme: B. Pharma.

Branch/Specialisation: Pharmacy

Duration: 3 Hrs.

Maximum Marks: 50

Note: All questions are compulsory. Internal choices, if any, are indicated.

- Q.1
- Name of two input and output devices of computers. **1**
 - What is first generation year. **1**
 - What is the difference between binary and octal numbering system? **1**
 - Write short note on one's complement and two's complement method. **1**
 - Write short note on planning project. **1**
 - How many types of DFDs are there? **1**
 - Define Bioinformatics.? **1**
 - Name any two databases used of bioinformatics. **1**
 - Give full form of LIMS and TIMS. **1**
 - Define Data Analysis. **1**
- Q.2
- Attempt any two:
- Solve following questions. **5**
 - Subtract binary number using 1's complement method:
 $(111001-110010)_2=(?)_2$
 - Subtract binary number using 2's complement method:
 $(101010-100011)_2=(?)_2$
 - Number conversion from octal to hexadecimal:
 $(367)_8=(?)_{16}$
 - Number conversion from Binary to decimal:
 $(101001.101)_2=(?)_{10}$
 - Binary Division:
 $(1010110/101)_2=(?)_2$

- Write HTML code for a student registration having following fields. **5**
 - First Name- Textbox (max. 30 characters A-Z and a-z)
 - Last Name- Textbox (max. 30 characters A-Z and a-z)
 - Date of Birth- Drop Down list (Day/Month/Year)
 - Email-Id- Textbox
 - Mobile Number- Textbox (10-digit number)
 - Gender- Radio
 - Address- Description Box
 - City- Textbox (max 30 characters A-Z and a-z)
 - Pin code- Textbox (06-digit number)
 - Submit- Button
- Explain generation of Computer in detail. **5**
 - How will you convert binary number system into decimal number system and vice versa? Give examples.

Q.3 Attempt any six: Two questions from each section is compulsory.

Section - A

- Briefly explain process of life cycle. **5**
- Describe data flow diagram in your own words. **5**
- What is the use of barcode in medicine identification? Also write its advantage and disadvantage. **5**

Section - B

- Give the objectives of bioinformatics. **5**
- Write a note on the use of bioinformatics in Vaccine Discovery. **5**
- Give application of bioinformatics in Pharmacy. **5**

Section - C

- Write the difference between TIMS and LIMS. **5**
- Explain chromatographic data analysis and its importance. **5**
- Explain TIMS and its importance. **5**

P.T.O.

Marking Scheme PY3CO33 Computer Applications in Pharmacy

Q.1	i.	Input devices	0.5 Mark	1
		output devices	0.5 Mark	
	ii.	1946-1959	1 Mark	1
	iii.	Difference between binary and octal	1 Mark	
	iv.	one's complement	0.5 Mark	1
		two's complement method.	0.5 Mark	
	v.	Explain planning project.	1 Mark	1
	vi.	At least 2 names of DFD	1 Mark	
	vii.	Define Bioinformatics	1 Mark	1
	viii.	Minimum two databases	1 Mark	
Q.2	ix.	Full form of LIMS and TIMS.	1 Mark	1
	x.	Define Data Analysis.	1 Mark	
		Attempt any two:		5
	i.	Solve following questions.		
		(a) 111	1 Mark	5
		(b) 111	1 Mark	
		(c) F7	1 Mark	
		(d) 41.625	1 Mark	
		(e) 1001	1 Mark	
	ii.	HTML	1 Mark	5
		code for a student registration	4 Marks	
	iii.	(a) Generation of Computer	2 Marks	5
		(b) Binary to decimal conversion process	2 Marks	
		(c) Examples.	1 Mark	
Q.3		Attempt any six: Two questions from each section is compulsory.		
		Section - A		
	i.	Definition of OFD	3 Marks	5
		Different levels of OFD	2 Marks	
	ii.	What is BCMA	3 Marks	5
		Its advantages and disadvantages	2 Marks	

Section - B

iii.	What is bioinformatics	3 Marks	5
	Objectives of bioinformatics.	2 Marks	
iv.	What is bioinformatics	3 Marks	5
	Use in Vaccine Discovery.	2 Marks	
v.	What is bioinformatics	3 Marks	5
	Application in Pharmacy.	2 Marks	

Section - C

vi.	What is TIMS and LIMS	2 Marks	5
	Difference	3 Marks	
vii.	Explain CDS	3 Marks	5
	Its application	2 Marks	
viii.	Explain TIMS	3 Marks	5
	Its importance in pharmacy	2 Marks	
