Sub: Python Programming

Time: 12:30am- 1:30am

Date: 27-02-2023

Max. Marks: 20

I. Answer any 4 of the following Questions.

4x5=20

1. Which are different Collections used in python? Explain their differences
2. Explain different methods used in Lists.
3. Explain the loops, loops within loops, Break, Continue statements with suitable examples.
4. What are the file operations and their role in python? Explain with example.
5. Define Dictionaries. Explain any 5 methods used on Dictionaries with example.

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M.Sc. (CS) Programme

II Internal Test 2022-23

III Semester

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Sub: Software Engineering

Time: 09:30am- 10:30am

Date: 28-02-2023

Max. Marks: 20

I. Answer any 4 of the following Questions.   **4x5=20**

   1. Explain in detail about client-server architecture?
   2. Briefly discuss repository model.
   3. What is debugging process? Explain.
   4. Explain User Interface design principles.
   5. Discuss a DFD of a compiler.
   6. Write a short note on – Integration Testing. Release Testing, UI design Process.

Sub : DMS   Semester : I
Time: 2:00 pm to 3:00pm   Date:13/03/2023

Answer any 4 of the following Question.   4x5=20M

Q1. In a class, All students take part in either music or drama or both 25 students take part in music, 30 students take part in drama and 8 students take part in both music and drama. Find

1. The number of students who take part in only music.
2. The number of students who take part in only drama.
3. The total number of students in the class.

Q2. a) Determine whether or not the following relation is an equivalence relation R on A =[0,1,2,3] given by R=AxA. 3M

b) Verify whether the following compound proposition are tautology or contradiction or contingency.

$(P \rightarrow q) \wedge (q \rightarrow r) \rightarrow (p \rightarrow r)$.   2M

Q3. Test the validity of the following argument:

I will become famous or I will not become a musician.

I will become a musician.

:. I will become famous.

Q4. Prove by M.I that $1^2 + 3^2 + 5^2 + \cdots (2n-1)^2 = 1/3 n(2n-1)(2n+1)$.

Q5. Define the poset. Show whether the relation $(x,y) \in R$ if $x \geq y$ defined on the set of +ve integers is a partial order relation.

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I Internal Test 2022-23
IV Semester

Sub: **Artificial Intelligence**
Time: 01:00pm- 2:00pm

Date: **01/08/2023**

Max. Marks: 20

Answer any 4 of the following Questions.
1. What is the Role of Intelligent Agent in AI. Explain types and its behavior
2. Explain Adversarial Search with Alpha beta pruning Algorithm
3. Explain in brief about various types search algorithm
4. Explain Knowledge representation and its Techniques.
5. Explain Backward chaining and forward chaining with example for any one.
6. Explain FOL and Propositional logic with example for each using quantifiers and complex logic

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II Semester

Sub: Web Programming

Time: 1:00pm- 2:00pm

Date: 01/08/2023

Max. Marks: 20

I.   Answer any 4 of the following
1.   What is XML? Explain XML tags, elements, Attributes and DOM with suitable example.
2.   Discuss various Java script Operators with example.
3.   Explain following a) HTML5 Image and Video   b)CSS internal and external Style sheet
4.   Write JS program for Validation for name phone, number, email ID with specific pattern.
5.   Explain PHP Numeric Associative array, Multidimensional array with example
6.   Explain GET and POST methods in PHP with example.

Sub: Data Communication & Computer Networks   Date: 12/09/2023

Time: 9:30am- 10:30 am   **Max. Marks: 20**

I. **Answer any 4 of the following**
    1. Explain in detail about any two Guided Medias.
    2. With a neat diagram explain IPv4.
    3. What is the DNS ? Explain in detail with example.
    4. Write a short note on Web Documents and HTTP.
    5. What is CRC? Dataword 1001, devisor 1011, identify the codeword.
    6. Explain UDP in detail.

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M.Sc. – IV Semester

Sub: Cloud Computing   **Date: 12-09-2023**
Time: 9:30am- 10:30am   **Max. Marks: 20**

Answer any four
1. Briefly explain HTTP, XMPP.
2. Discuss SOAP and REST.
3. Explain in detail about Amazon S3.
4. What is Client? Explain three types.
5. What is Web Browser? List out features of Safari and Chrome.
6. Explain AJAX. What are the advantages and disadvantages?
7. Briefly discuss why virtualization?

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Sub: C# and .NET Programming
Time: 09:30am- 10:30am

Date: 17-01-2023
Max. Marks: 20

4x5=20

I. Answer any 4 of the following Questions.

1. Write down features of ASP.NET?
2. How many types of Server controls are supported by ASP.NET? Explain.
3. What are the different validators in ASP.NET?
4. Explain ASP.NET application life cycle
5. Write a Program on the Entered Year is a Leap Year or Not 4
6. Explain Calendar Control.

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III Semester

Sub: Python Programming
Time: 09:30am- 10:30am

Date: 18-01-2023
Max. Marks: 20

I. Answer any 4 of the following Questions.   4x5=20

1. Define Python. State different rules to declare function in python
2. Which a basic data type and modules provided by the python? Explain with example.
3. Define methods and its different types
4. Write a python program to count number of spaces, vowels, consonants in a string
5. What are different uses of underscores? Explain with suitable example for each
6. Explain with example a) if-nested if   b) for loop with range()

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III Semester

Sub: Software Engineering
Time: 09:30am- 10:30am

Date: 19-01-2023
Max. Marks: 20

I.   **Answer any 4 of the following Questions.**   4x5=20

1. Define Software Engineering. Discuss the good software attributes.

2. Explain in detail about Spiral Model.

3. What is Risk? Discuss the Risk Management System.

4. What is DFD? Explain it with Insulin Pump example.

5. Explain in detail about Requirement Engineering Process.

6. Write a short note on a) Waterfall Model   b) State Machine Model