

SPPU In-Sem Offline Examination-April 2022

Class: BE Branch :IT Semester: II

Subject :Distributed Computing System (Code:414462)

Maximum Marks: 30

Duration: 60 Minutes

Date : 04/04/2022

**Instructions:**

- 1) Question 1 OR Question 2 , Question 3 OR Question 4 , Question 5 OR Question 6
- 2) Neat diagram must be drawn whenever necessary
- 3) Figures to the right side indicate full marks

Q.No.	Question / Description	Marks	CO
1	a)What are the characteristics of Distributed System b)List the advantages of Distributed System	5 5	1
<b>OR</b>			
2	Explain the Architecture of Distributed System with suitable diagram	10	1
3	What is meant by communication in Distributed System? Explain the communication protocols with suitable diagram	10	2
<b>OR</b>			
4	Explain the nature of communication for - a)Synchronous b)Asynchronous c)Persistent d)Transient	10	2
5	Write a Note on- a)Strict Consistency Model b) Sequential Consistency Model	10	3
<b>OR</b>			
6	What is meant by Fault Tolerance? Explain the types of failures in details	10	3

**SPPU In-Sem Offline Examination-April 2022**

Class: BE      Branch: Information Technology      Semester: II

Subject: Ubiquitous Computing      (Code: 414463)

Maximum Marks: 30

Duration: 60 Minutes

Date :05/04/2022

**Special Instructions:**

- Students can use Non Programmable Calculator.
- Assume suitable data if necessary.
- All question carry equal marks.
- Figure mentioned rights present marks for the question.
- Attempt Q1 OR Q2, Q3 OR Q4 and Q5 OR Q6.

Q. No.	Question / Description	Marks	CO
1.a	Explain the most essential properties of ubicom system.	6	1
1.b	List the Ubiquitous computing applications. Explain any one in brief.	4	1
	OR		
2.a	Elaborate the concept of Ubiquitous computing. List the advantages of Ubiquitous computing.	6	1
2.b	Explain Ubiquitous System Environment Interaction.	4	1
3.a	Draw service provision life cycle and Explain in detail.	6	2
3.b	What are the smart devices under iHCI and HPI?	4	2
	OR		
4.a	Justify the need of OS? Explain OS for mobile computing devices.	6	2
4.b	Summarize important characteristics of smart devices.	4	2
5.a	Examine the smart systems and identify the significance of Sensors and Actuators.	4	3
5.b	What is RFID? Explain the working of the same. List some commonly supported applications.	6	3
	OR		
6.a	Confirm Tagging is possible with RFID. Justify.	6	3
6.b	Differentiate between Active and Passive RFID Tag.	4	3



**SPPU In-Sem Offline Examination-April 2022**

Class: BEIT Branch IT Semester: II

Subject: Elective III - Internet and Web Programming.

(Code:414464D)

Maximum Marks: 30

Duration: 60 Minutes

Date: 7/4/22

**Special Instructions:**

- 1) Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right side indicate full marks.
- 4) Assume suitable data if necessary.

Q. No.	Question / Description	Marks	CO
Q.1	a) List & Explain CSS Selectors with examples	5	CO1
	b) Compare XML & HTML.	5	CO1
OR			
Q.2	a) List New Semantic Tag with syntax used in HTML5 and explain document structure of HTML.	5	CO1
	b) Explain different ways of applying CSS styles to HTML document along with the significance	5	CO1
Q.3	a) Specify different ways to place JavaScript in the HTML code?	4	CO2
	b) Explain advantages & limitations of Angular JS?	6	CO2
OR			
Q.4	a) Write a program to demonstrate the use of any one selector in CSS.	4	CO2
	b) Explain Working of Ajax with supporting Diagram?	6	CO2
Q.5	a) Draw & Explain Servlet Life Cycle?	6	CO3
	b) Differentiate between session & cookies?	4	CO3
OR			
Q.6	a) What are the advantages of using JSP over Servlets?	4	CO3
	b) Describe the purpose and major uses of server-side scripting?	6	CO3

**SPPU In-Sem Offline Examination-April 2022****Class:BE****Branch:Information Technology****Semester:II****Subject : Elective IV - Social Media Analytics (Code:(414465D)****Maximum Marks: 30****Duration: 60****Minutes Date : 8/04/2022****Instructions to the candidates**

- 1) Answer Q1 or Q2, Q3 or Q4, Q5 or Q6
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right side indicate full marks.
- 4) Assume suitable data if necessary.

Q.	Question	Marks	CO
1 a)	Explain evolution process of creating, sorting and exchanging information?	5	1
b)	Differentiate between Estimated Data sources and Factual Data Sources with examples.	5	1
<b>OR</b>			
2 a)	Explain different Social Media Data Sources.	5	1
b)	What is public and private data in Social media? Give example.	5	1
3 a)	What are two predominant approaches to structural visualization?	5	2
b)	Explain the role of data representation in data mining method.	5	2
<b>OR</b>			
4 a)	Write a short note on Ontology based visualization.	5	2
b)	Explain data mining process for social media.	5	2
5 a)	Explain hierarchical Clustering.	5	3
b)	What do you mean by Sampling for Social Networks data? What is the need for sampling?	5	3
<b>OR</b>			
6 a)	Explain k-means clustering.	5	3
b)	Compare different mining algorithms.	5	3



**SPPU In-Sem Offline Examination-April 2022****Class:BE Branch:Information Technology and Electronics & Telecommunication Sem:II****Subject : Honours\* in Cyber Security- Information Systems Management (Code:410403 )****Maximum Marks: 30****Duration: 60 Minutes****Date : 11/04/2022****Instructions to the candidates**

- 1) Answer Q1 or Q2, Q3 or Q4, Q5 or Q6
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right side indicate full marks.
- 4) Assume suitable data if necessary.

Q.	Question	Marks	CO
1 a)	Which features of organizations do managers need to know about to build and use information systems successfully? What is the impact of information systems on organizations?	5	1
b)	How do the value chain and value web models help businesses identify opportunities for strategic information system applications?	5	1
<b>OR</b>			
2 a)	How Information Systems impact Organization and Business Firms. Explain with examples.	5	1
b)	Explain Features of Organization in terms of Organizational Politics.	5	1
<b>OR</b>			
3 a)	What ethical, social, and political issues are raised by information systems?	5	2
b)	How have information systems affected everyday life?	5	2
<b>OR</b>			
4 a)	Explain- Ethics in an Information Society.	5	2
b)	Why do contemporary information systems technology and the Internet pose challenges to the protection of individual privacy and intellectual property?	5	2
<b>OR</b>			
5 a)	What is IT infrastructure and what are its components?	5	3
b)	What are the challenges of managing IT infrastructure and management solutions?	5	3
<b>OR</b>			
6 a)	What are the current trends in computer hardware platforms?	5	3
b)	What are the stages and technology drivers of IT infrastructure evolution?	5	3