

## Faculty of Engineering Technology

### Term-Test 2 Question Paper – B.Tech

Department : Computer Science and Engineering  
 Programme : B. Tech (CSE)  
 Semester / Batch : 6/2018  
 Date of Test : 09/06/2021  
 Course Code : CSC314A  
 Course Title : Web Architecture and Application development

### Term Test -2

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**INSTRUCTIONS TO STUDENTS:**

1. Answer all the questions
2. Use only SI units
3. Use of non-programmable scientific calculator is permitted
4. Use of data handbook permitted wherever applicable
5. Missing data may be appropriately assumed
6. Notations used have usual meaning
7. **Upload the scanned answer sheets in RUAS portal.**

**Maximum Duration: 1.15 Hour**

**Maximum Marks: 25**

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**IMPORTANT:**

You may retain the question paper for future reference

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Q. No.	Question	Marks	CO
1	a) List the uses of a PHP script	2	2
	b) List the benefits of Pipe and Filter architecture	3	2
2	a) Design a bank transaction batch processing software with a neat block diagram based on batch sequential architecture. Consider a particular bank transaction type such as credit card approval, money transfer transaction, etc.	3	3
	b) List the limitations of Batch processing architecture	2	2
3	Compare and contrast between Repository and Blackboard architecture. Justify the architecture that is more suitable for AI based robotic application development between the two.	5	3
4	a) Design a purchase process requirement process with a neat block diagram based on main subroutine hierarchical architecture.	3	4
	b) List the benefits of publish-subscribe messaging architecture	2	2

<b>5</b>	Suggest a suitable data centric architecture to develop a student based application to store and retrieve semester marks. Represent the architecture with a class diagram or a block diagram.	<b>5</b>	<b>4</b>
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**CO (ILO) – Course Outcomes.**