**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**
**End Semester Examination, December 2018**

Course: B. Tech. CSE + BFSI                                   Semester: V
Programme: Banking Application Architecture          Time: 03 hrs.
Code : CSIB-323                                                   Max. Marks: 100
**Instructions: Details & Explanation in Answers must relate to marks awarded to that question.**

| SECTION A | | | |
|---|---|---|---|
| S. N. | | Marks | CO |
| Q 1 | Elaborate the term "All architectures are designs but not all designs are architectures." | 4 | CO1 |
| Q 2 | Explain the ESB & its role in SOA Banking Architecture. | 2+2 | CO5 |
| Q 3 | Write the definition of Terrestrial Applications with examples in bullet points. | 2+2 | CO4 |
| Q 4 | Define Banking Channels, mention types of Transaction groups in bullet points. | 2+2 | CO3 |
| Q 5 | Why SOA based integration of external applications with CBS termed as best integration methodology? | 4 | CO2 |
| SECTION B | | | |
| Q 6 | Discuss the Artifacts of Application Architecture.<br>Or<br>Discuss the Divergent views of Architecture to represent complete software architecture. | 10 | CO1 |
| Q 7 | Write the brief details of "Technology Enablers" in Enterprises view Architecture.<br>Or<br>Explain all 9 layers & their definition in Layered Architecture view to help Architects identify Architecture component and put them in the proper layers. | 10 | CO2 |
| Q 8 | Define Point Solution with examples. Write types of Reports with their importance. | 5+5 | CO3, CO4. |
| Q 9 | Briefly describe Functional architecture of Channels and drill down up to leaf level submodules for one of the transactional group to make diagram more relevant. | 6+4 | CO4. CO5. |
| SECTION-C | | | |
| Q 10 | Analyze how Banking Industry Automation (SOA model) is fine tune combination of CBS, Terrestrial & External Applications. Why Integration of these Applications still a challenge & discuss the Need & Scope of Integration of external Application with CBS. | 10,5,5 | CO3, CO2, CO1. |
| Q 11 | Explain in detail Multichannel Integration using IBM SOA Architecture driven solution for the entire bank with the help of diagram.<br>Or<br>Discuss in details with the help of diagram, Overview of Core Banking Application Architectures by all 20 Artifacts. | 20 | CO3, CO4, CO5. |

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| SECTION A | | |
| --- | --- | --- |
| **S. N.** | | **Marks** | **CO** |

| S. N. | | Marks | CO |
| --- | --- | --- | --- |
| Q 1 | Define System Context and its importance in Software Application in bullet points. | 2+2 | CO1 |
| Q 2 | Write the Main Components of Customer Information System (CIS). | 4 | CO2 |
| Q 3 | Highlight the Point Solutions & their examples in bullet points. | 2+2 | CO3 |
| Q 4 | Write the mode of transactions with Banks. | 4 | CO4 |
| Q 5 | What are Third Party or External Applications with example and uses? | 2+2 | CO5 |
| **SECTION B** | | | |
| Q 6 | Discuss in details about Software Architectures by different views and artifacts.<br>Or<br>Discuss in details the three versions of the Architecture overview. | 10 | CO1 |
| Q 7 | Write down the Functional Architecture of Lending Process.<br>Or<br>Draw & define Overview of Core Banking Application Architecture. | 10 | CO2 |
| Q 8 | What are Terrestrial Application? Write need & scope of Integration of Terrestrial Application with Core System. | 5+5 | CO3, CO4. |
| Q 9 | Why Reports Application are important in Banking System? Classify reports based on functional utility. What are the modes of Report generation? | 5+5 | CO4, CO5. |
| **SECTION-C** | | | |
| Q 10 | As a Banking Application Architect, use IBM SOA based integration, explain Data Level, Process Level, Channel level & Core System Integration by single diagram. | 5+5+5 +5 | CO4, CO5. |
| Q 11 | Describe Functional Architecture of Channels. Drill down further different types of Transaction by leaf level functional mapping of Channels.<br>Or<br>Describe in details with the help of diagram, Overview of IT System View Application Architecture. | 10+10 | CO3, CO4. |