

**MASTER OF SCIENCE (COMPUTER SCIENCE) (CBCS-2018 COURSE)**  
**M.Sc. (Computer Science) Sem-III : WINTER- 2022**  
**SUBJECT : SOFTWARE ARCHITECTURE**

Day : Thursday

Time : 02:00 PM-05:00 PM

Date : 5/1/2023

**W-20058-2022**

Max. Marks : 60

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**N. B. :**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Draw neat and labelled diagrams **WHEREVER** necessary.
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**Q. 1** Define Software Architecture. Explain two main aspects of Software Architecture as design plan and as an abstraction. **(15)**

**OR**

Explain design activities for Conceptual Architecture View.

**Q. 2** A) Answer **ANY ONE** of the following: **(08)**

- i) Discuss key features of product in detail.
- ii) Describe Central Vision hardware configuration in brief.

**B)** Answer **ANY ONE** of the following: **(07)**

- i) Elaborate the relation of Software Architecture to other development task with the help of neat diagram.
- ii) Explain decomposition of platform software with respect to Module Architecture View.

**Q. 3** Answer **ANY THREE** of the following: **(15)**

- a) Describe the concept of layered systems in detail.
- b) Explain uses for Code Architecture View.
- c) Describe repository architecture style in brief.
- d) Explain various processes in Execution Architecture view.
- e) What is MVC? Explain in brief.

**Q. 4** Write short notes on **ANY THREE** of the following: **(15)**

- a) Packetizer
- b) Traceability for Conceptual Architecture View
- c) Global Analysis
- d) Role of Software Architect
- e) Loose Coupling Among Four Views

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