

B.Sc. (I. T.) Sem. - VI (CBCS - 2015 Course) : WINTER - 2018
SUBJECT: SOFTWARE ARCHITECTURE AND DESIGN

Day: Monday
Date: 19/11/2018

W-2018-1085

Time: 02.30 p.m. to 05.30 p.m.
Max. Marks: 60

N.B:

- 1) Attempt **ANY SIX** questions.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat diagram **WHEREVER** necessary.
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- Q.1** Define Software Architecture. Explain various factors influencing good architecture. **(10)**
- Q.2** List and explain various phases of SDLC. **(10)**
- Q.3** Write short notes on (**ANY TWO**): **(10)**
- a) Abstraction
 - b) Problem Partitioning
 - c) Hierarchy
- Q.4** Differentiate between following: **(10)**
- a) Architecture Vs. Design
 - b) Design Vs. Development
- Q.5** State and explain the advantages of 'Early Design Decisions' in the context of software architecture. What are different 'Quality Attributes' for Software Architecture? Explain in brief. **(10)**
- Q.6** Explain different notations and pragmatics used in the design of any software. **(10)**
- Q.7** Draw a use case diagram for 'Withdrawal of money from bank' operation. **(10)**
- Q.8** Why reusability is important? How does object oriented software development promotes reusability? **(10)**

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