a2zpapers.com

Exam. Code : 206703 Subject Code : 4690

M.Sc. Computer Science 3rd Semester ADVANCED SOFTWARE ENGINEERING

Paper : MCS-301

Time Allowed—3 Hours] [Maximum Marks—100

Note :— Attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any section. All questions carry equal marks.

SECTION-A

- (a) Explain the significance of effort estimation and quality plan during planning a software project.
 - (b) List the reasons which become the basis for software failure and suggest the ways to overcome these failures.
- (a) Discuss the Top 10 software metrics defined by Bohem and suggest how these can be incorporated in Modern Software Development scenario.
 - (b) Discuss how Size and Process are helpful in improving software economics.

2341(2119)/HH-7874

1

(Contd.)

www.a2zpapers.com www.a2zpapers.com
oad free old Question papers gndu, ptu hp board, punjab

SECTION-B

- 3. How Forward Engineering and Reverse Engineering are related with Software Re-engineering ? Discuss Horseshoe model for Software Re-engineering.
- 4. Describe various class-based as well as method-based OO metrics used to measure the design of an object-oriented system.

SECTION-C

- What do you mean by Object-Oriented Design ? What are its different characteristics ? Explain with the help of suitable example.
- What do you mean by Object-Oriented methodologies ? Discuss Unified method of Object-Oriented Analysis and Design along with its various features.

SECTION-D

- What is a Software Agent ? How does it differ from a program ? Discuss the various classes of Software Agent.
- 8. What are Multi-Agent systems ? Describe the properties of Multi-Agent systems. Name few application areas where Multi-Agent systems can be applied.

2341(2119)/HH-7874

2

1000

4

www.a2zpapers.com www.a2zpapers.com oad free old Question papers gndu, ptu hp board, punjab