M.Sc. (Informatics) – III Semester - 2016 IT-35- Software Engineering

Time: 3 Hrs. Max. Marks: 75

Q 5

Note: Answer five questions in all. All questions carry equal marks. Please write your roll no. on the top of this paper.

- Q 1 Define the term 'Software Engineering'. What are the 3 key elements used in software engineering? With the help of a suitable diagram, describe and discuss linear sequential waterfall model.
- Q 2 Explain Extreme Programming, giving the process and techniques used in each phase of the process. Distinguish between verification and validation.
- Q 3 "Fundamental design concepts provide the software engineer with a foundation from which sophisticated design methods can be applied". Explain the fundamental software design concepts.
- Q 4 Compare the waterfall, incremental, Rapid Application Development, prototyping and spiral model based on the following factors: methodology, advantages and disadvantages. (Draw a table to show the comparison).

15 Social Network Site Web Site Content **Participation Tools** & Applications Social Actor Social Collaboration **Profiles** Graph Presence & Content Services Social Social Site Application Services Networking Services **Relation Controls**

The above diagram shows the block diagram of a social network site, describe each block in terms of the functions and workflows. Propose a technical solution of the above social network.

What is 'Requirement Specifications'. Write down detailed requirement 15 specifications and propose a design to generate the Enrollment Number of all the UG and PG students of your University. Your design must be supported with a logical flowchart.

IIC3516

Page 1 of 1