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E—15—2019

FACULTY OF SCIENCE

B.Sc. (C.S.) (Second Year) (Third Semester) EXAMINATION

MARCH/APRIL, 2019

(Revised Course)

COMPUTER SCIENCE

(S.3.2)

(Software Engineering)

(Teusday, 16-4-2019)

Time : 2.00 p.m. to 5.00 p.m.

Time—3 Hours

Maximum Marks—80

N.B. :— (i) Attempt all questions.

(ii) Assume suitable data, if necessary.

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| 1. | Attempt the following : | 20 |
| (i) | What is Software Engineering ? Explain its key elements. | |
| (ii) | Distinguish between product and process. | |
| (iii) | What is system engineering ? Explain. | |
| (iv) | Explain the concept of analysis patterns. | |
| 2. | (a) Explain in detail RAD model. | 8 |
| | (b) Explain the adaptive software development. | 7 |
| | <i>Or</i> | |
| (c) | Explain the process framework in detail. | 8 |
| (d) | Explain the elements of computer based systems. | 7 |
| 3. | (a) Explain in detail eliciting requirements. | 8 |
| | (b) Explain in detail waterfall model. | 7 |
| | <i>Or</i> | |
| (c) | Explain in detail the concurrent development model. | 8 |
| (d) | How to initiate the requirement engineering process ? Explain. | 7 |

P.T.O.

4. (a) Explain the Data modeling concepts. 8
- (b) Describe the system engineering hierarchy. 7
- Or*
- (c) Explain Dynamic systems development method. 8
- (d) Explain planning practices in detail. 7
5. Write short notes on (any *three*) : 15
- (i) Management Myths
- (ii) Core principles
- (iii) Scrum
- (iv) Domain analysis
- (v) System simulation.