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97676

BCA 4th Semester

Examination – May, 2019

SOFTWARE ENGINEERING

Paper : BCA - 209

Time : Three hours ]

Maximum Marks : 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

**Note :** Question No. 1 is compulsory. Attempt five questions in all, at least one from each Unit. All questions carry equal marks.

1. (a) What is a software crisis ? Discuss the main reason of software crisis. 2
- (b) What is Data Dictionaries ? Explain. 2
- (c) What do you mean by software requirement specification document ? Explain. 2
- (d) What is Object Oriented Design ? Explain. 2

- (e) What do you mean by debugging activities ?  
Explain. 2
- (f) What is Data structure metrics ? Explain. 2
- (g) What is Structural Testing. 2
- (h) What do you mean by validation and  
verification ? 2

#### UNIT - I

2. (a) What is Software Engineering ? What are the  
essential characteristics and challenges of  
software engineering ? Explain. 8
- (b) What is Software Requirement Engineering ?  
Discuss the various requirements engineering  
process in detail. 8
3. (a) Compare waterfall model and spiral model of  
Software Development. 8
- (b) Explain the nature and characteristics of Software  
Requirement Specification (SRS) in detail. 8

#### UNIT - II

4. (a) How is Software management different from  
other types of engineering managements ?  
Explain. 8
- (b) What do you mean by software risk  
management ? Explain the objectives and benefits  
of risk management in detail. 8

5. (a) What do you mean by Software Project  
Estimation models ? Explain COCOMO model in  
detail. 8
- (b) What is Software Project Management ? What are  
the main Project management activities ?  
Explain. 8

#### UNIT - III

6. (a) What are software metrics ? Discuss the effect of  
software metrics on software productivity. 8
- (b) What is software design Process ? State its  
relevance and also discuss the importance of  
software design Process in software engineering. 8
7. (a) Explain the following in detail :  $2 \times 4 = 8$   
(i) Classification of Cohesiveness & Coupling  
(ii) Good Coding Style
- (b) What is software Implementation ? Explain the  
relationship between design and implementation  
in detail. 8

#### UNIT - IV

8. (a) What is software testing ? How is testing  
important in software life cycle ? Discuss the  
objectives of software testing. 8
- (b) Explain the following in detail :  $2 \times 4 = 8$   
(i) Design of Test cases  
(ii) Unit testing and system testing

9. (a) What is Software Maintenance ? What is the importance of Software Maintenance ? What are various types of Software maintenance ? Discuss in detail. 8
- (b) What is Software Configuration Management ? Discuss the importance of software configuration management in detail. 8