

No. of Printed Pages : 04

Roll No.

CC587

M.Tech. EXAMINATION, May 2019

(Third Semester)

(B. Scheme) (Re-appear)

(CSE)

CSE661B

SOFTWARE MEASUREMENT AND METRICS

Time : 3 Hours]

[Maximum Marks : 75

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

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. Answer to the point. Use of Scientific Calculator is allowed.

(3-34/3) M-CC587

P.T.O.

Unit I

1. Explain the components of goal based framework for software measurement. **15**
2. Explain the classification of software measures. **15**

Unit II

3. Explain, how to analyze software measurement data. **15**
4. Calculate the cyclomatic complexity of the given below program :

Procedure Validate_Pin(Valid_Pin, Return_Code)

Valid_Pin = FALSE

Return_Code = GOOD

Pin_Count = 0

do until Valid_Pin = True or Pin_Count > 2 or

Return_Code = CANCEL

begin

get Pin_Number (Pin_Number, Return_Code)

if (Return_Code = CANCEL)

begin

call Valide Pin_Number(Pin_Number, Valid_Pin)

if (Valid_Pin = FLASE) then

begin

output Invalid PIN, please re-enter PIN”

Pin_Count = Pin_Count + 1

end

end

return (Valid_Pin, Return_Code). **15**

Unit III

5. Explain the Jelinski-Moranda Software Reliability Model. **15**
6. Explain the basic program execution model. **15**

Unit IV

7. List and explain the runtime software metrics. **15**
8. List and explain the various object-oriented metrics. **15**

M-CC587

2

(3-34/4) M-CC587

3

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