Registration No:

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B.TECH
PCS3G001

3rd Semester Regular Examination 2016-17
SOFTWARE ENGINEERING
BRANCH: CSE (Minor)
Time: 3 Hours
Max Marks: 100
Q.CODE: Y796
Answer Part-A which is compulsory and any four from Part-B.
The figures in the right hand margin indicate marks.

Part – A (Answer all the questions)

Q1   **Answer the following questions:** *Choose the appropriate alternative and write.*   **(2 x 10)**

a) Black box testing sometimes called?
(i)Dataflow Testing
(ii)Loop Testing
(iii)Graph Based Test
(iv)Behavioural testing

b) …………. Is a black box testing method?
(i)Boundary value analysis
(ii)Basic path testing
(iii)Code path Analysis
(iv)None of the above

c) An important aspects of coding is ?
(i)Readability**.**
(ii)Productivity.
(iii)To use as small memory space as possible
(iv)Brevity

d) RAD is an acronym for?
(i)Rapid Action Development.
(ii)Rough Application Development.
(iii)Rapid Application Development**.**
 (iv) Rough Action Development.

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e) Spiral model was developed by?
(i)Bev Littlewood.
(ii)Berry Bohme.
(iii)Roger Pressman.
(iv)Victor Bisili.

f) Which is not a software life cycle model?
(i)Spiral Model.
(ii) Prototype Model.
(iii)Capability maturity Model.
(iv)Water Fall Model.

g) The construction is used to………….. error?
(i)Compilation.
(ii)Runtime.
(iii)Design Time.
(iv)Non of the above.

h) During the software development which factor is the most crucial ?
(i)people.
(ii) process.
(iii) product.
(iv) project.

i) The term module in the design phase is refers to?
(i)Function.
(ii)Procedure.
(iii)Sub program.
(iv)All the above.

j) The object of Testing is ?
(i)Debugging.
(ii)To uncover error.
(iii)To gain modularity.
(iv)Analyze system

Q2   **Answer the following questions: *Short answer type***   **(2 x 10)**
a) What is software process or Software Development Life Cycle (SDLC)?
b) What is feasibility study?
c) Write about drivers and stubs.
d) Mentions some software analysis & design tools?
e) What is cohesion and write down its types ?
f) Mention the formula to calculate Cyclomatic complexity of a program?
g) Differentiate validation and verification?
h) What is software re-engineering?
i) Draw a diagram for pure waterfall life cycle.
j) What is the difference between SRS document and design document?

Part – B (Answer any four questions)

Q3 a) Draw the schematic diagram to represent the Classical waterfall model in software development life cycle. **(10)**

b) What do you mean by balancing a DFD? Illustrate your answer with suitable example. **(5)**

Q4 a) What are the drivers and stub modules in the context of integration and unit testing of a software product? **(10)**

b) How can black box test suites for this software designed ? **(5)**

Q5 a) What do you understand by a metaphor in a user interface design? Is a metaphor based user interface design advantageous? Justify it. **(10)**

b) What are the drivers and stub modules in the context of integration and unit testing of a software product? **(5)**

Q6 a) Draw the schematic diagram to represent RAD model in software development life cycle. **(10)**

b) What do you mean by software reliability and explain the six metrics to measure software reliability? **(5)**

Q7 a) Explain in detail different types of Cohesion and coupling. **(10)**

b) Distinguish between function-oriented and object-oriented design. **(5)**

Q8 a) What is CORBA? Explain in detail with suitable examples. **(10)**

b) Distinguish between Extreme Programming and Scrum. **(5)**

Q9 a) What is cyclomatic complexity? How it is calculated using control flow graph? **(10)**

b) Describe regression testing. **(5)**