

Enrollment No: _____

Exam Seat No: _____

C.U.SHAH UNIVERSITY

Summer Examination-2017

Subject Name: Software Engineering

Subject Code: 2TE04SEE1

Branch: Diploma(CE)

Semester: 4

Date: 20/04/2017

Time: 10:30 To 01:30


Marks : 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
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Q-1 Attempt the following questions:

(14)

- a) Which of the following is not a type of COCOMO model?
 - a) Internal COCOMO
 - b) Intermediate COCOMO
 - c) Complete COCOMO
 - d) Basic COCOMO
- b) Which of the following is not a type of coupling?
 - a) Data Coupling
 - b) Stamp Coupling
 - c) Content Coupling
 - d) Context Coupling
- c)  is a symbol for _____.
 - a) Process Flow
 - b) Digit Flow
 - c) Data Flow
 - d) Primary Flow
- d) Full form of UML is _____.
 - a) Unified Model Language
 - b) Unified Modelling Language
 - c) Unified Middle Language
 - d) Unified Moving Language
- e) RAD stands for _____.
 - a) Relative Application Development
 - b) Rapid Application Development
 - c) Rapid Application Document
- f) Spiral Model has high reliability requirements.
 - a) True



- b) False
- g)** _____ is a measure of the degree of interaction (or interdependent) between the two modules.
- a) Cohesion
 - b) Matrix
 - c) Coupling
 - d) Testing
- h)** Which of the following is White box technique?
- a) Statement Testing
 - b) Decision Testing
 - c) Condition Coverage
 - d) All of these
- i)** Boundary value analysis belong to?
- a) Black box testing
 - b) White box testing
 - c) Yellow box testing
 - d) Green box testing
- j)** Risk management is one of the most important jobs for a _____
- a) Client
 - b) Project manager
 - c) Production team
 - d) Investor
- k)** Select the statement true for activity diagrams.
- a) They can be used to discover parallel activities
 - b) They are used to depict workflow for a particular business activity
 - c) Activity diagram do not tell who does what and are difficult to trace back to object models
 - d) All of the mentioned
- l)** Structured Analysis is based on the principles of
- a) Top-down decomposition approach
 - b) Divide and conquer principle
 - c) Graphical representation of results using DFDs
 - d) All of the mentioned
- m)** _____ is the process of determining whether the output of one phase of software development conforms to that of its previous phase.
- a) Verification
 - b) Validation
 - c) Authentication
 - d) Authorization
- n)** _____ is the process of determining whether a fully developed system conforms to its requirements specification.
- a) Verification
 - b) Validation
 - c) Authentication
 - d) Authorization



Attempt any four questions from Q-2 to Q-8

- Q-2** **Attempt all questions**
- a) Explain prototype model. (7)
- b) What is project size estimation technique? Explain any one. (7)
- Q-3** **Attempt all questions**
- a) Explain Gantt Chart. (7)
- b) Explain data dictionary. (7)
- Q-4** **Attempt all questions**
- a) Explain black box testing. (7)
- b) Explain different types of maintenance. (7)
- Q-5** **Attempt all questions**
- a) Explain Risk management in detail. (7)
- b) Explain cohesion. (7)
- Q-6** **Attempt all questions**
- a) What is GUI? Explain characteristics of good user interface. (7)
- b) Explain Use case model. (7)
- Q-7** **Attempt all questions**
- a) Explain classification of design activities. (5)
- b) Draw Activity diagram of ATM system. (5)
- c) Explain SPMP. (4)
- Q-8** **Attempt all questions**
- a) Explain COCOMO model. (7)
- b) Explain characteristics and types of software maintenance. (7)

Q-1 **Attempt the following questions:** (14)

- a) નીચેના માથી કયો COCOMO મોડેલ નો પ્રકાર નથી?
- a) Internal COCOMO b) Intermediate COCOMO
- c) Complete COCOMO d) Basic COCOMO
- b) નીચેના માથી કયો Coupling નો પ્રકાર નથી?
- a) Data Coupling b) Stamp Coupling
- c) Content Coupling d) Context Coupling
- c) નીચે દર્શાવેલ સિમ્બોલ _____ માટેનો છે.
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- a) Process Flow b) Digit Flow
- c) Data Flow d) Primary Flow
- d) UML પૂરું નામ શું છે?
- a) Unified Model Language
- b) Unified Modelling Language
- c) Unified Middle Language
- d) Unified Moving Language



e)

RAD પૂરું નામ શું છે

- a) Relative Application Development
- b) Rapid Application Development
- c) Rapid Application Document
- d) Relative Application Document

f) સ્પાઈરલ મોડેલ વિશ્વસનીયતા અવાસ્થકતાઓ ધરાવે છે.

- a) True
- b) False

g) _____ એ બે મોડ્યુલ વચ્ચે ક્રિયા પ્રાતિક્રિયા નું માપ છે.

- a) Cohesion
- b) Matrix
- c) Coupling
- d) Testing

h) નીચેના માથી કઈ ટેકનિક વ્હાઇટ બોક્સ ટેકનિક છે?

- a) Statement Testing
- b) Decision Testing
- c) Condition Coverage
- d) All of these

i) બાઉન્ડરિ વેલ્યુ એનાલિસિસ નીચેના માથી શેનો પ્રકાર છે?

- a) Black box testing
- b) White box testing
- c) Yellow box testing
- d) Green box testing

j) રિસ્ક મેનેજમેન્ટ એ _____ માટેનું સૌથી મહત્વનું કામ છે.

- a) Client
- b) Project manager
- c) Production team
- d) Investor

k) નીચેના માથી એક્ટિવિટી ડાયાગ્રામ માટેનું સાચું સ્ટેટમેન્ટ પસંદ કરો.

- a) They can be used to discover parallel activities
- b) They are used to depict workflow for a particular business activity
- c) Activity diagram do not tell who does what and are difficult to trace back to object models
- d) All of the mentioned

l) સ્ટ્રક્ચર એનાલિસિસ ક્યાં સિદ્ધાંત ઉપર આધાર રાખે છે?

- a) Top-down decomposition approach
- b) Divide and conquer principle
- c) Graphical representation of results using DFDs
- d) All of the mentioned

m) સોફ્ટવેર ડેવલપમેન્ટના એક તબક્કા નું આઉટપુટ તેના આગળનાતબક્કા જેવું છે કે નહીં તે નક્કી કરવા માટેની પ્રક્રિયાને _____ કહે છે.

- a) Verification
- b) Validation
- c) Authentication
- d) Authorization

n) _____ એ પૂરેપૂરી સિસ્ટમ તેની જરૂરિયાત પ્રમાણે ડેવેલોપ થઈ છે કે નહીં તે નક્કી કરવાની પ્રક્રિયા છે.

- a) Verification
- b) Validation



c) Authentication

d) Authorization

Attempt any four questions from Q-2 to Q-8

- Q-2** **Attempt all questions**
- a) પ્રોટોટાઇપ મોડેલ સમજાવો. (7)
- b) પ્રોજેક્ટ સાઇઝ એસ્ટિમેસન ટેકનિક શું છે? કોઈ પણ એક સમજાવો. (7)
- Q-3** **Attempt all questions**
- a) નેટ ચાર્ટ સમજાવો. (7)
- b) ડેટા ડિક્શનરી સમજાવો. (7)
- Q-4** **Attempt all questions**
- a) બ્લેક બોક્સ ટેકનિક સમજાવો. (7)
- b) જુદા જુદા પ્રકારના મેન્ટેનન્સ સમજાવો. (7)
- Q-5** **Attempt all questions**
- a) રિસ્ક મેનેજમેન્ટ સમજાવો. (7)
- b) કોહેસન સમજાવો. (7)
- Q-6** **Attempt all questions**
- a) GUI શું છે? યુઝર ઇન્ટરફેસ ની લાક્ષણિકતાઓ સમજાવો. (7)
- b) યુઝ કેસ મોડેલ સમજાવો. (7)
- Q-7** **Attempt all questions**
- a) ડિજાઇન એક્ટિવિટી નું વર્ગીકરન સમજાવો. (5)
- b) ATM સિસ્ટમનો એક્ટિવિટી ડાયાગ્રામ દોરો. (5)
- c) SPMP સમજાવો. (4)
- Q-8** **Attempt all questions**
- a) COCOMO મોડેલ સમજાવો. (7)
- b) સોફ્ટવેર મેન્ટેનન્સના પ્રકાર અને લાક્ષણિકતાઓ સમજાવો. (7)

