

C.U.SHAH UNIVERSITY

Summer Examination-2016

Subject Name: Software Engineering

Subject Code: 2TE04SEE1

Branch: Diploma(CE)

Semester: 4

Date: 12/05/2016

Time: 02:30 To 05:30


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 a Testing Method?
a) Pink Box Testing b) Blue Box Testing c) Black Box Testing d) Red Box Testing
- b) What is full form of COCOMO?
a) Cost company model
b) Constructive cost estimation model
c) Code cost model
d) Costly coded model
- c) Which one of the following is not a phase of Prototyping Model?
a) Quick Design b) Coding c) Prototype Refinement d) Engineer Product
- d) The spiral model was originally proposed by
a) IBM b) Barry Boehm c) Pressman d) Royce
- e) Engineers doing requirements analysis and specification are designated as _____
a) Analysts b) Programmer c) Manager d) None
- f) What is a good characteristic of Good design?
a) Correctness b) Efficiency c) Maintainability d) All of above
- g) What is use of symbol  in flow chart?
a) Process b) Input c) Output d) Database
- h) Which process is used for determining whether a fully developed system confirms to its requirements specification?
a) Analysis b) Designing c) Verification d) Validation
- i) _____ of a software product can also be defined as the probability of the product working “correctly” over a given period of time.
a) Reliability b) Dependability c) Both a and b d) None
- j) Full form of PERT is _____
a) Program Evaluation and Review Technique
b) Program Engineering & Research Technique
c) Project Evaluation & Research Technique



- d) Program Execution & Reuse Technique
- k) Full form of GUI is _____
- a) Graphical User Interface b) Group Unique Indemnification
c) Graphical Universal Interval d) Growing User Interconnection
- l) RAD stands for
- a) Relative Application Development
b) Rapid Application Development
c) Rapid Application Document
d) Relative Application Document.
- m) Which of the following is not project management goal?
- a) Keeping overall costs within budget.
b) Delivering the software to the customer at the agreed time.
c) Maintaining a happy and well-functioning development team.
d) Avoiding costumer complaints.
- n) What is the major advantage of using Incremental Model?
- a) Customer can respond to each increment
b) Easier to test and debug
c) It is used when there is a need to get a product to the market early
d) Both b & c

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

- Q-2 Attempt all questions**
- a) Discuss prototype model. (7)
b) Explain classic waterfall model. (7)
- Q-3 Attempt all questions**
- a) Describe Risk Management in detail. (7)
b) Explain SRS in detail. (7)
- Q-4 Attempt all questions**
- a) Describe data flow diagram. (7)
b) Explain Use case model. (7)
- Q-5 Attempt all questions**
- a) Describe LOC and its disadvantage. (7)
b) Explain Function Point. (7)
- Q-6 Attempt all questions**
- a) Explain Activity Diagram. (7)
b) Write a note on Black Box Testing. (7)
- Q-7 Attempt all questions**
- a) What is debugging? Explain debugging approaches and guidelines. (7)
b) Explain different types of maintenance (7)
- Q-8 Attempt all questions**
- a) Explain Gnatt chart. (7)
b) Describe Code Review. (7)



- a) નીચેના માથી કઈ ટેસ્ટિંગ મેથડ છે?;
a) Pink Box Testing b) Blue Box Testing c) Black Box Testing d) Red Box Testing
- b) COCOMO પૂરું નામ શું છે?
a) Cost company model
b) Constructive cost estimation model
c) Code cost model
d) Costly coded model
- c) નીચેના માથી કયો તબક્કો; પ્રોટોટાઈપ મોડેલ નો નથી?
a) Quick Design b) Coding c) Prototype Refinement d) Engineer Product
- d) સ્પાઈરલ મોડેલ _____ દ્વારા સૂચિત કરવામા આવ્યું હતું.
a) IBM b) Barry Boehm c) Pressman d) Royce
- e) જે ઇંજિનિયર જરૂરીયાત વિશ્લેષણ અને સ્પષ્ટીકરણ કરે તેને; _____ થી ઓળખવામા આવે છે
a) Analysts b) programmer c) manager d) none
- f) સારી ડીઝાઈન ની સારી લાક્ષણિકતા કઈ છે?;
a) correctness b) efficiency c) maintainability d) all of above
- g) _____ ચિહ્ન નો ફ્લો ચાર્ટ મા ઉપયોગ શું છે?
a) Process b) input c) output d) Database
- h) નીચેના માથી કઈ પ્રક્રિયા સંપૂર્ણ વિકસીત સિસ્ટમ ની જરૂરીયાત વિશ્લેષણ સાથે ખાતરી કરે છે?
a) Analysis b) designing c) verification d) validation
- i) સોફ્ટવેર પ્રોડક્ટ ની _____ ની આપેલ સમય ગાળામા પ્રોડક્ટ સાચી રીતે કામ કરે છે તેની સંભાવના તરીકે પણ ઓળખવામા આવે છે.
a) reliability b) dependability c) Both a and b d) None
- j) PERT નું પૂરું નામ _____ છે.
a) Program Evaluation and Review Technique
b) Program Engineering & Research Technique
c) Project Evaluation & Research Technique
d) Program Execution & Reuse Technique
- k) GUI નું પૂરું નામ _____ છે.
a) Graphical User Interface b) Group Unique Indemnification
c) Graphical Universal Interv+al d) Growing User Interconnection
- l) RAD નું પૂરું નામ _____ છે.
a) Relative Application Development
b) Rapid Application Development
c) Rapid Application Document
d) Relative Application Document.
- m) નીચેના માથી કયું પ્રોજેક્ટ મેનેજમેન્ટ નું લક્ષ્ય નથી?
a) Keeping overall costs within budget.
b) Delivering the software to the customer at the agreed time.
c) Maintaining a happy and well-functioning development team.
d) Avoiding customer complaints.
- n) મોડેલ નો મોટો ફાયદો શું છે?
a) Customer can respond to each increment



- b) Easier to test and debug
- c) It is used when there is a need to get a product to the market early
- d) Both b & c

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

- Q-2 Attempt all questions**
- a) પ્રોટોટાઈપ મોડેલ સમજાવો. (7)
 - b) ક્લાસિક વોટરફોલ મોડેલ સમજાવો. (7)
- Q-3 Attempt all questions**
- a) રીસ્ક મેનેજમેન્ટ વિસ્તાર થી સમજાવો. (7)
 - b) SRS વિસ્તાર થી સમજાવો. (7)
- Q-4 Attempt all questions**
- a) ડેટા ફ્લો ડાયાગ્રામ સમજાવો. (7)
 - b) યુઝ કેસ મોડેલ સમજાવો. (7)
- Q-5 Attempt all questions**
- a) LOC ને તેના ગેરફાયદા સાથે સમજાવો. (7)
 - b) ફંક્શન પોઈન્ટ સમજાવો. (7)
- Q-6 Attempt all questions**
- a) એકિટવીટી ડાયાગ્રામ સમજાવો. (7)
 - b) બ્લોક બોક્સ ટેસ્ટિંગ સમજાવો. (7)
- Q-7 Attempt all questions**
- a) ડિબગિંગ શુ છે? ડિબગિંગ અપ્રોચ અને ગાઇડલાઇન્સ સમજાવો. (7)
 - b) જુદા જુદા પ્રકારના મેટેનેન્સ સમજાવો. (7)
- Q-8 Attempt all questions**
- a) Gnatt chart સમજાવો. (7)
 - b) કોડ રિવ્યુ સમજાવો. (7)

