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END_TERM_08/07/2020 Preview Test: END_TERM_08/07/2020

Edit Mode is: ?

END_TERM_Software_Engineering_and_Project_Management_July_2020

Test Information

Description Course- SEPM Semester- IVth
 Program- B.Tech-CSE-BDATA Time03 hrs
 Course Code- CSEG2008 Max Marks-100

Instructions

Timed Test This test has a time limit of 2 hours. You will be notified when time expires, and you may continue or submit. Warnings appear when **half the time, 5 minutes, 1 minute, and 30 seconds** remain. *[The timer does not appear when previewing this test]*

Multiple Attempts Not allowed. This Test can only be taken once.

Force Completion Once started, this test must be completed in one sitting. Do not leave the test before clicking **Save and Submit**.

Question Completion Status:

QUESTION 1

3 points Save Answer

"Assume that the size of an organic type software product has been estimated to be 32,000 lines of source code. Assume that the average salary of software engineers be Rs. 15,000/- per month. Determine the effort required to develop the software product and the nominal development time. From the basic COCOMO estimation formula for organic software: From the basic COCOMO estimation formula for organic software: Nominal Development Time is"

- 14 months
- 12 months
- 15 months
- 19 months
-

QUESTION 2

1 points Save Answer

Spiral model is used when risk and cost evaluation is important
 True

- False
-

QUESTION 3

2 points Save Answer

Which one is not principle of Risk Management:

- Risk Computation
- Open Communication
- Project Integration
- continuous process
-

QUESTION 4

1 points Save Answer

First circuit around spiral model represents a
 product development

- prototype development
- iteration count
- deployment
-

QUESTION 5

3 points Save Answer

The average staffing size for a 200 KLOC project using COCOMO Model is ___persons
 38.67

- 36.63

Click Save and Submit to save and submit. Click Save All Answers to save all answers.

Save All Answers

Save and Submit

QUESTION 6

3 points Save Answer

"A program has 5 EIs of simple type, 4 EOs of average type, 4 EQs of complex type, 3 ILFs of average type and 4 EIFs of complex type. The complexity adjustment factors are to be taken as average. The UFP for this program is_____"

- 125
- 129
- 121
- 119

QUESTION 7

1 points Save Answer

Incremental process model phase which acknowledged that software is delivered to customer who evaluates delivered product and provides feedback based on evaluation and then iteration is processed is

- deployment
- planning
- modeling
- communication

QUESTION 8

3 points Save Answer

The effort for a project of size 500 KLOC using COCOMO Model is_____PM

- 6328
- 6350
- 6268
- 6238

QUESTION 9

3 points Save Answer

"A project has expenditure of 180 lacs and the revenues at the end of each year are 64, 80, 100, 125 and 105 lacs. The NPV assuming 12.5 percent discount rate is_____lacs"

- 141.89
- 143.37
- 146.63
- 151.89

QUESTION 10

3 points Save Answer

The average staffing size for a 400 KLOC project using basic COCOMO Model is____persons

- 131.8
- 125.6
- 135.4
- 130.9

QUESTION 11

2 points Save Answer

Risk management is carried out to:

- Identify the risk
- Risk categorization
- Risk monitoring
- Reduce the impact of risk

QUESTION 12

1 points Save Answer

A dataflow diagram is

- modern version of flowchart
- mainly used as the system specification
- the primary output of the system design phase
- All the above

Click Save and Submit to save and submit. Click Save All Answers to save all answers.

Save All Answers

Save and Submit

- quick design
- communication

QUESTION 141 points

Which of the following is/are White box technique?

- All of the mentioned
- Condition Coverage
- Decision Testing
- Statement Testing

QUESTION 151 points

The dataflow diagram shows:

- The flow of data
- the processes
- the areas where they are stored
- All of the above

QUESTION 161 points

What are risk categories ?

- Known Risks
- All given
- Predictable Risks
- Unpredictable Risks

QUESTION 171 points

Black box testing is only functional testing.

- True
- False

QUESTION 181 points

___ is not Structural Testing ?

- Acceptance
- Parallel
- Regression
- Acceptance and Regression both

QUESTION 191 points

Waterfall model is also known as

- modern life cycle
- manual life cycle
- automated life cycle
- classic life cycle

QUESTION 201 points

In a dataflow diagram there can be a direct flow from one entity to another without a process

- True
- False

QUESTION 213 points

Consider a program for the determination of the nature of roots of a quadratic equation. Its input is a triple of positive integers (say a,b,c) and values may be from interval [0,100]. The program output may have one of the following words.

Not a quadratic equation; Real roots; Imaginary roots; Equal roots

Find all combination of a,b,c values, results in Output - Real Roots .

- 100, 50, 50
- 50, 50, 99
- 1, 50, 50
- 50, 50, 0

Click Save and Submit to save and submit. Click Save All Answers to save all answers.

1 <= month <= 12;

1 <= day <= 31;

1900 <= year <= 2025;

The possible outputs would be Previous date or invalid input date.

Find all correct equivalence classes for input domain.

- I4={month: m=0};
- I1={month: 1 <= m <=12};
- I2={month: m < 1};
- I3={month: m > 12};

QUESTION 231 points [Save Answer](#)

Alpha testing is done at

- Developer s & User s end
- Developer s end
- User s end
- None of the mentioned

QUESTION 241 points [Save Answer](#)

Each phase of Spiral model is completed with a review.

- True
- False

QUESTION 251 points [Save Answer](#)

In dataflow diagrams there is always a _____ in between when the data flows from one entity to another entity

- process
- database
- either a or b
- neither a nor b

QUESTION 262 points [Save Answer](#)

What are all possible stakeholders ?

- Customer
- Any team in company
- Suppliers
- Maintenance Team

QUESTION 272 points [Save Answer](#)

What are all responsibilities of Project Manager ?

- Back-up and disaster recovery measures.
- Budgetary control of the programme of projects.
- Monitoring of, and responding to, issues at the programme level.
- Contributing to strategy, policy and procedure.

QUESTION 281 points [Save Answer](#)

A stage in which individual components are integrated and ensured that they are error-free to meet customer requirements

- Coding
- Testing
- Design
- Implementation

QUESTION 293 points [Save Answer](#)

"A project has expenditure of 180 lacs and the revenues at the end of each year are 64, 80, 100, 125 and 105 lacs. The ROI for the project is _____percent"

- 32.67
- 35.67
- 25.67
- 33.33

Click Save and Submit to save and submit. Click Save All Answers to save all answers.

[Save All Answers](#)[Save and Submit](#)

external interface (High). The UFP Count is _____"

- 236
- 248
- 244
- 256

QUESTION 311 points [Save Answer](#)

Verification is _____.

- checking that we are building the right system
- checking that we are building the system right
- Making sure that it is what the user really wants
- Performed by an independent test team

QUESTION 321 points [Save Answer](#)

Methodology in which project management processes were step-by step.

- Agile
- Waterfall model
- Spiral model
- Prototype

QUESTION 333 points [Save Answer](#)

"A program has 5 EIs of simple type, 4 EOs of average type, 4 EQs of complex type, 3 ILFs of average type and 4 EIFs of complex type. The complexity adjustment factors are to be taken as average. The FP for this program is _____"

- 128
- 131
- 138
- 145

QUESTION 341 points [Save Answer](#)

What are quality characteristics of software ?

- Reliability
- All of them
- usability
- maintainability

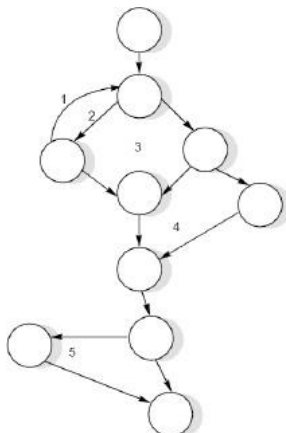
QUESTION 351 points [Save Answer](#)

Phase of prototype model which focuses on a representation of those aspects of software that will visible to end user is

- construction of prototype
- quick design
- deployment
- communication

QUESTION 363 points [Save Answer](#)

Calculate the cyclomatic complexity for the following graph.



Click Save and Submit to save and submit. Click Save All Answers to save all answers.

[Save All Answers](#)[Save and Submit](#)

○ 5

QUESTION 371 points [Save Answer](#)

"In RAD model, information gathered in business modeling phase is reviewed and analyzed to form sets of data objects vital for business in"

- business modeling
- process modeling
- data modeling
- deployment modeling

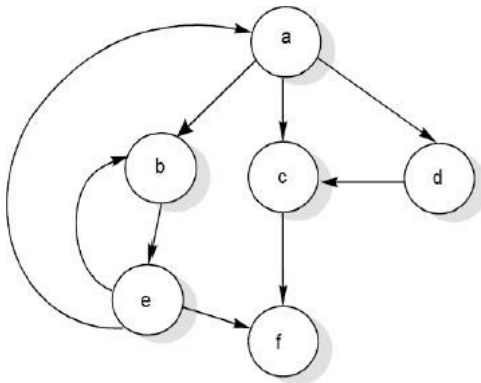
QUESTION 381 points [Save Answer](#)

The testing has been stopped when _____

- all the risk are resolved
- The time completed
- All the tests run
- The faults have been fixed

QUESTION 393 points [Save Answer](#)

Find the Cyclomatic Complexity of given graph and value of P for given formula $V(G) = e - n + 2P$:



- 6 and 1
- 5 and 2
- 6 and 2
- 5 and 1

QUESTION 401 points [Save Answer](#)

Software mistakes during coding are known as _____

- errors
- failure
- defects
- bugs

QUESTION 411 points [Save Answer](#)

What is the role of Project Manager?

- Take ownership of communication between different module's of team
- Take ownership of some of the module
- Take ownership of assignment of work only.
- Take ownership of the whole project

QUESTION 421 points [Save Answer](#)

White Box techniques are also classified as

- Design based testing
- Structural testing
- Error guessing technique
- None of the mentioned

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[Save All Answers](#)[Save and Submit](#)

constraints, etc. Company deduced that the project they are using is of size 500 KLOC, Based on the data given what will be the duration of the project"

- 67.1234
- 89.5678
- 651.8901
- 38.4072

QUESTION 44

1 points [Save Answer](#)

"Determination of objectives, alternatives and constraints are _____ phase of spiral model"

- first
- second
- third
- fourth

QUESTION 45

1 points [Save Answer](#)

Which process formally authorizes the project?

- Develop project charter
- Receive project approval
- Develop project management plan
- Develop preliminary project statement

QUESTION 46

3 points [Save Answer](#)

"A program has 5 EIs of simple type, 4 EOs of average type, 4 EQs of complex type, 3 ILFs of average type and 4 EIFs of complex type. The complexity adjustment factors are to be taken as average. The FP for this program is _____"

- 128
- 131
- 138
- 145

QUESTION 47

1 points [Save Answer](#)

" Although industry is moving towards component based construction, most software continues to be"

- Semi custom built
- custom built
- fixed built
- fixed layout built

QUESTION 48

1 points [Save Answer](#)

An individual who plans and directs the work.

- Stakeholder
- Project manager
- Team leader
- Programmer

QUESTION 49

1 points [Save Answer](#)

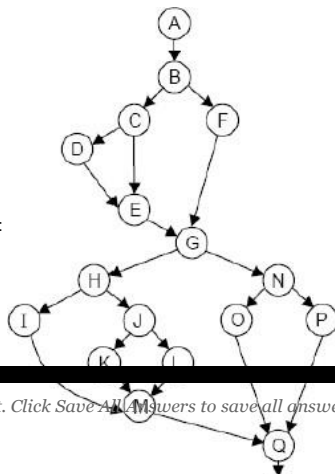
_____ is not a software quality model.

- McCall Model
- ISO 9126
- Boehm Model
- ISO 9000

QUESTION 50

3 points [Save Answer](#)

Find all independent paths in given graph:



Click Save and Submit to save and submit. Click Save All Answers to save all answers.

[Save All Answers](#)

[Save and Submit](#)

- ABFGNPQR
- ABCDEGNOQR
- ABFGHJKMQR
- All given

QUESTION 511 points [Save Answer](#)

What is the role of Project Team Members ?

- Defining requirements for reporting and interfacing
- Identification and mapping of information needs
- All of the above
- Provide functional expertise in an administrative process

QUESTION 523 points [Save Answer](#)

"A project has cashflows of -100000, 10000, 10000, 10000, 20000, 100000 (all in dollars) for year 0, 1, 2, 3, 4 and 5 respectively. The Payback period is estimated as _____ years"

- 3.5
- 4.25
- 4.8
- 4.5

QUESTION 531 points [Save Answer](#)

A software program that is outdated or obsolete is termed as

- legacy application
- engineering application
- embedded application
- open source application

QUESTION 541 points [Save Answer](#)

"Waterfall model phase which establishes a plan for software engineering work that follows i.e estimating, scheduling, tracking is"

- communication
- planning
- construction analysis

QUESTION 551 points [Save Answer](#)

A process of software development where requirements are broken down into multiple standalone modules of software development cycle

- Waterfall model
- RAD model
- Evolutionary process model
- Incremental process model

QUESTION 561 points [Save Answer](#)

At the end of the first phase in spiral model the build prototype is evaluated by

- Developers
- customers
- Both a and b
- Prototype is not evaluated at the end of first phase

QUESTION 573 points [Save Answer](#)

"A project has cashflows of -100000, 10000, 10000, 10000, 20000, 100000 (all in dollars) for year 0, 1, 2, 3, 4 and 5 respectively. The ROI for the project is _____percent"

- 9.5
- 10
- 10.5
- 11.5

QUESTION 581 points [Save Answer](#)

Click Save and Submit to save and submit. Click Save All Answers to save all answers.

In dataflow diagrams an originator or receiver of data is usually designated by

[Save All Answers](#)[Save and Submit](#)

- a square box
- a rectangle

QUESTION 59

1 points

Save Answer

The customer requirements are broken down into logical modules for ease of

- inheritance
- design
- editing
- implementation

QUESTION 60

1 points

Save Answer

System software which processes complex but determinate information structures is

- operating system components
- management utilities
- networking software
- drivers

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