

[Dashboard](#) / [My courses](#) / [CS303\\_CSE & IT](#) / [General](#) / [Mid-Sem - 10%](#)**Started on** Saturday, 18 September 2021, 9:01 AM**State** Finished**Completed on** Saturday, 18 September 2021, 9:38 AM**Time taken** 37 mins 50 secs**Marks** 38.07/62.00**Grade** 6.14 out of 10.00 (61%)Question **1**

Correct

Mark 1.00 out of 1.00

Purpose of process is to deliver software

- ☐ that is secure
- ☐ that is cost efficient
- ☒ with acceptable quality
- ☒ in time



The correct answers are:

in time,

with acceptable quality

Question **2**

Correct

Mark 1.00 out of 1.00

Which of the following is not a phase of Prototyping Model?

- ☒ Coding
- ☐ Quick Design
- ☐ Prototype Refinement
- ☐ Engineer Product



The correct answer is:

Coding



## Question 3

Partially correct

Mark 0.30 out of 1.00

Select the incorrect statement: "Software engineers should

- ☐ not use your technical skills to misuse other people's computers."
- ☒ maintain integrity and independence in their professional judgment."
- ☒ be dependent on their colleagues."
- ☐ knowingly accept work that is outside your competence."



The correct answers are:

knowingly accept work that is outside your competence.",

be dependent on their colleagues."

## Question 4

Correct

Mark 1.00 out of 1.00

Which of the following statements are correct?

- A. A general statement of objectives is the major cause of failed software efforts.
- B. Component-based Software Engineering allows faster delivery.

- ☒ A and B
- ☐ Neither
- ☐ A
- ☐ B



The correct answer is:

A and B

## Question 5

Partially correct

Mark 0.60 out of 1.00

What are attributes of good software ?

- ☒ Software verification
- ☒ Software maintainability
- ☒ Software functionality
- ☒ Software development

✗

✓

✓

✗

The correct answers are:

Software maintainability,

Software functionality

## Question 6

Incorrect

Mark 0.00 out of 1.00

If a software production gets behind schedule, one can add more programmers and catch up.

Select one:

- ☒ True ✗
- ☐ False

The correct answer is 'False'.

Question **7**

Incorrect

Mark 0.00 out of 1.00

Which of the following models is suitable for accommodating changes?

- ☐ Prototyping Model
- ☐ RAD Model
- ☒ Waterfall Model
- ☐ Build & Fix Model

✖

The correct answers are:

Build & Fix Model,

Prototyping Model,

RAD Model

Question **8**

Incorrect

Mark 0.00 out of 1.00

What is a Software ?

- ☐ Software is set of programs
- ☐ Software is documentation and configuration of data
- ☒ Software is set of programs, documentation and configuration of data
- ☐ Software is a set of programs and their associated documentation

✖

The correct answer is:

Software is a set of programs and their associated documentation



Question **9**

Correct

Mark 1.00 out of 1.00

Which of these does not account for software failure ?

- ☐ Increasing Demand
- ☐ Low expectation
- ☒ Increasing Supply
- ☐ Less reliable and expensive



The correct answer is:

Increasing Supply

Question **10**

Correct

Mark 1.00 out of 1.00

Which model/s can be selected if user is involved in all the phases of SDLC?

- ☐ Agile Model
- ☒ RAD Model
- ☐ Waterfall Model
- ☐ Prototyping Model



The correct answer is:

RAD Model

Question **11**

Correct

Mark 1.00 out of 1.00

"Consider a system where, a heat sensor detects an intrusion and alerts the security company." What kind of a requirement the system is providing ?

- ☐ None of the mentioned
- ☐ Known Requirement
- ☒ Functional
- ☐ Non-Functional



The correct answer is:  
Functional

Question **12**

Incorrect

Mark 0.00 out of 1.00

Which of the following life cycle model can be chosen if the development team has less experience on similar projects?

- ☐ RAD
- ☐ Spiral
- ☒ Waterfall
- ☐ Iterative Enhancement Model



The correct answer is:  
Spiral



Question **13**

Incorrect

Mark 0.00 out of 1.00

Which of the following statements is true?

- A. Agility is defined as the ability of a project team to respond rapidly to a change.
- B. Agile methods seem to work best when team members have expertise in skill sets.
- C. In agile development it is more important to build software that meets the customers' needs today than worry about features that might be needed in the future.

- ☒ A and C
- ☐ B and C
- ☐ A, B, and C
- ☐ A and B

✗

The correct answer is:

B and C

Question **14**

Incorrect

Mark 0.00 out of 1.00

Which of the following activities of a Generic Process framework provides a feedback report?

- ☒ Communication
- ☐ Construction
- ☐ Deployment
- ☐ Modeling
- ☐ Planning

✗

The correct answer is:

Deployment

Question **15**

Correct

Mark 1.00 out of 1.00

Which one of the following is not an application of embedded software product?

- ☐ None of the mentioned
- ☐ digital function of dashboard display in a car
- ☒ pattern recognition game playing
- ☐ keypad control of a security system



The correct answer is:

pattern recognition game playing

Question **16**

Partially correct

Mark 0.67 out of 1.00

Which of these is true ?

- ☐ Customized products are commissioned by particular customer
- ☒ Generic products and customized products are types of software products
- ☒ Generic products are produced by organization and sold to open market
- ☐ Generic products are freely downloadable



The correct answers are:

Generic products and customized products are types of software products,

Generic products are produced by organization and sold to open market,

Customized products are commissioned by particular customer





Question **17**

Incorrect

Mark 0.00 out of 1.00

The fundamental notions of software engineering does not account for ?

- ☒ Software reuse
- ☐ Software Security
- ☐ Software Validation
- ☐ Software processes

✗

The correct answer is:

Software Validation

Question **18**

Incorrect

Mark 0.00 out of 1.00

If you were a lead developer of a software company and you are asked to submit a project/product within a stipulated time-frame with no cost barriers, which model would you select?

- ☐ Spiral
- ☐ Incremental
- ☐ RAD
- ☒ Waterfall

✗

The correct answer is: RAD

Question **19**

Correct

Mark 1.00 out of 1.00

Identify the correct statement: "Software engineers shall

- ☐ ensure that their products only meet the SRS."
- ☐ act in a manner that is in the best interests of his expertise and favour."
- ☐ all of the mentioned
- ☒ act consistently with the public interest."



The correct answer is:

act consistently with the public interest."

Question **20**

Correct

Mark 1.00 out of 1.00

Which one of the following is a requirement that fits in a developer's module?

- ☐ Flexibility
- ☐ Availability
- ☒ Testability
- ☐ Usability



The correct answer is:

Testability

Question **21**

Correct

Mark 1.00 out of 1.00

Which four framework activities are found in the Extreme Programming(XP) ?

- ☐ analysis, design, coding, testing
- ☐ planning, analysis, design, coding
- ☐ planning, analysis, coding, testing
- ☒ planning, design, coding, testing



The correct answer is: planning, design, coding, testing

Question **22**

Incorrect

Mark 0.00 out of 1.00

Identify an ethical dilemma from the situations mentioned below:

- ☒ All of the mentioned
- ☐ Agreement in principle with the policies of senior management
- ☐ Your employer releases a safety-critical system without finishing the testing of the system
- ☐ Refusing to undertake a project in spite having the resources



The correct answer is:

Your employer releases a safety-critical system without finishing the testing of the system

Question **23**

Correct

Mark 1.00 out of 1.00

In XP Increments are delivered to customers every \_\_\_\_\_ weeks.

- ☐ Three
- ☐ Four
- ☐ One
- ☒ Two



The correct answer is:

Two

Question **24**

Partially correct

Mark 0.30 out of 1.00

Select the developer-specific requirement(s).

- ☐ Availability
- ☒ Maintainability
- ☒ Efficiency
- ☐ Portability



The correct answers are:

Portability,

Maintainability



Question **25**

Incorrect

Mark 0.00 out of 1.00

Which of these is not true ?

- ☐ Web brings concept of software as service
- ☐ Web based system should be developed and delivered incrementally
- ☒ Web has led to availability of software services and possibility of developing highly distributed service based systems
- ☐ Web based systems have led to degradation of programming languages



The correct answer is:

Web based systems have led to degradation of programming languages

Question **26**

Correct

Mark 1.00 out of 1.00

Selection of a software lifecycle model is based on

- ☐ Software Costs
- ☒ Project type and associated risk
- ☒ Requirements
- ☒ Development team & Users



The correct answers are:

Requirements,

Development team & Users, Project type and associated risk



Question **27**

Correct

Mark 1.00 out of 1.00

Which is one of the most important stakeholder from the following?

- ☐ Managers
- ☐ Entry level personnel
- ☐ Middle level stakeholder
- ☒ Users of the software



The correct answer is:

Users of the software

Question **28**

Partially correct

Mark 0.50 out of 1.00

Agile Software Development is based on

- ☐ Linear Development
- ☐ Spiral Development
- ☐ Incremental Development
- ☒ Iterative Development



The correct answers are:

Incremental Development,

Iterative Development



Question **29**

Incorrect

Mark 0.00 out of 1.00

Which of the following statements explains portability in non-functional requirements?

- ☐ None of the mentioned
- ☒ The ability of the system to behave consistently in a user-acceptable manner when operating within the environment for which the system was intended ✗
- ☐ It cannot be enhanced by using languages, OS' and tools that are universally available and standardized
- ☐ It is a degree to which software running on one platform can easily be converted to run on another platform

The correct answer is:

It is a degree to which software running on one platform can easily be converted to run on another platform

Question **30**

Correct

Mark 1.00 out of 1.00

A company is developing an advance version of their current software available in the market, what model approach(es) would they prefer ?

- ☐ Spiral
- ☒ Iterative Enhancement ✓
- ☒ RAD ✓
- ☐ Incremental

The correct answers are:

RAD,

Iterative Enhancement

Question **31**

Incorrect

Mark 0.00 out of 1.00

How is Incremental Model different from Spiral Model?

- ☐ Changing requirements can be accommodated in Incremental Model
- ☐ Progress can be measured for Incremental Model
- ☐ Users can see the system early in Incremental Model
- ☒ All of the mentioned



The correct answer is:

Progress can be measured for Incremental Model

Question **32**

Correct

Mark 1.00 out of 1.00

Which two of the following models will not be able to give the desired outcome if user's participation is not involved?

- ☐ RAD & Spiral
- ☐ RAD & Waterfall
- ☐ Waterfall & Spiral
- ☒ RAD & Prototyping



The correct answer is: RAD & Prototyping





Question **33**

Partially correct

Mark 0.60 out of 1.00

Identify the disadvantage(s) of Spiral Model.

- ☒ Invests time in approval and documentation control
- ☒ Applying in smaller projects
- ☒ Performs extensive risk analysis performed
- ☐ Manages addition of functionalities later

✗

✓

✗

The correct answer is:

Applying in smaller projects

Question **34**

Correct

Mark 1.00 out of 1.00

Efficiency in a software product does not include \_\_\_\_\_

- ☒ licensing
- ☐ responsiveness
- ☐ processing time
- ☐ memory utilization

✓

The correct answer is:

licensing

Question **35**

Incorrect

Mark 0.00 out of 1.00

Which of the following models facilitates the reusability of components?

- ☐ RAD
- ☒ Incremental
- ☐ Prototyping Model
- ☒ Spiral

✗

✗

The correct answers are:

RAD,

Prototyping Model

Question **36**

Correct

Mark 1.00 out of 1.00

"Software engineers should not use their technical skills to *misuse* other people's computers." Here the term *misuse* refers to:

- ☒ Unauthorized access to computer material
- ☒ Dissemination of viruses or other malware
- ☐ Not inserting your personal pen drive
- ☒ Unauthorized modification of computer material

✓

✓

✓

The correct answers are:

Unauthorized access to computer material,

Unauthorized modification of computer material,

Dissemination of viruses or other malware

Question **37**

Correct

Mark 1.00 out of 1.00

The reason for software bugs and failures is due to  
Software companies  
Software Developers  
Both Software companies and Developers  
None of the Above

- ☐ Software Developers
- ☐ None
- ☒ Both Software companies and Developers
- ☐ Software companies



The correct answer is:

Both Software companies and Developers

Question **38**

Correct

Mark 1.00 out of 1.00

Which of these software engineering activities are not a part of software processes ?

- ☐ Software validation
- ☒ Software dependence
- ☐ Software development
- ☐ Software specification



The correct answer is:

Software dependence



Question **39**

Partially correct

Mark 0.80 out of 1.00

The longer a fault exists in software

- ☐ the more chances of modifying the requirements accordingly
- ☒ the more costly it is to detect and correct
- ☒ the more likely it is to be properly corrected
- ☒ the more tedious its removal becomes



The correct answers are:

the more tedious its removal becomes,

the more costly it is to detect and correct

Question **40**

Correct

Mark 1.00 out of 1.00

Which of the following are not software process qualities?

- ☐ Visibility
- ☒ Portability
- ☐ Productivity
- ☐ Timeliness



The correct answer is:

Portability

Question **41**

Correct

Mark 1.00 out of 1.00

Arrange the following steps to form a basic/general Engineering Process Model.

1. Test
2. Design
3. Install
4. Specification
5. Manufacture
6. Maintain

- ☒ 4, 2, 5, 1, 3, 6
- ☐ 2, 4, 5, 1, 6, 3
- ☐ 4, 2, 5, 1, 6, 3
- ☐ 2, 4, 5, 1, 3, 6



The correct answer is:

4, 2, 5, 1, 3, 6

Question **42**

Correct

Mark 1.00 out of 1.00

Which of the following statements are incorrect?

- A. Programmers prefer programming to testing and sometimes they take shortcuts when writing tests.
- B. Tests are automated in Extreme Programming.

- ☐ A and B
- ☐ B
- ☐ A
- ☒ None of the mentioned



The correct answer is: None of the mentioned

Question **43**

Correct

Mark 1.00 out of 1.00

Choose an internal software quality from given below:

- ☐ usability
- ☒ reusability
- ☐ reliability
- ☐ scalability



The correct answer is: reusability

Question **44**

Correct

Mark 1.00 out of 1.00

Which of these is correct ?

- ☐ System engineering is a part of more general form of Software Engineering
- ☒ Software engineering belongs to Computer science
- ☐ Computer science belongs to Software engineering
- ☒ Software engineering is concerned with the practicalities of developing and delivering useful software



The correct answers are:

Software engineering belongs to Computer science,

Software engineering is concerned with the practicalities of developing and delivering useful software



Question **45**

Correct

Mark 1.00 out of 1.00

Which of the following does not apply to agility to a software process?

- ☐ Only essential work products are produced
- ☐ Uses incremental product delivery strategy
- ☐ None of the mentioned
- ☒ Eliminate the use of project planning and testing



The correct answer is: Eliminate the use of project planning and testing

Question **46**

Correct

Mark 1.00 out of 1.00

The work associated with software engineering can be categorized into three generic phases, regardless of application area, project size, or complexity namely the \_\_\_\_\_ phase which focuses on *what*, the \_\_\_\_\_ phase which focuses on *how* and the \_\_\_\_\_ phase which focuses on *change*.

1. support
2. development
3. definition

What is the correct order to fill up the blanks?

- ☒ 3, 2, 1
- ☐ 1, 2, 3
- ☐ 2, 1, 3
- ☐ 3, 1, 2



The correct answer is: 3, 2, 1

## Question 47

Incorrect

Mark 0.00 out of 1.00

Which of the following statements are incorrect?

- A. Incremental development in Extreme Programming (XP) is supported through a system release once every month.  
B. In XP, as soon as the work on a task is complete, it is integrated into the whole system.

- ☐ A  
☐ A and B  
☒ B  
☐ None of the mentioned



The correct answer is: A

## Question 48

Incorrect

Mark 0.00 out of 1.00

Which of the following statements are true about the Spiral Model?

- A. The angular dimension of the model represents the cumulative costs.  
B. The radial dimension represents the progress made in completing each cycle.  
C. Each loop of the spiral from X-axis clockwise through 360° represents one phase.

- ☐ B and C  
☐ A and B  
☒ All of the above.  
☐ A and C  
☐ C only



The correct answer is:  
C only



Question **49**

Partially correct

Mark 0.50 out of 1.00

What is/are the major advantage/s of using Incremental Model?

- ☐ It is used when there is a need to get a product to the market early
- ☒ Easier to test and debug
- ☐ Customer can respond to each increment
- ☐ None of the mentioned



The correct answers are:

Customer can respond to each increment,

Easier to test and debug

Question **50**

Incorrect

Mark 0.00 out of 1.00

Which one of the following is not a step of requirement engineering?

- ☐ requirements analysis
- ☐ requirements design
- ☐ requirements documentation
- ☒ requirements elicitation



The correct answer is:

requirements design

Question **51**

Correct

Mark 1.00 out of 1.00

Choose the correct option in terms of Issues related to professional responsibility.

- ☐ Confidentiality
- ☐ Managing Client [Relationships](#)
- ☐ Intellectual property rights
- ☒ Both Confidentiality & Intellectual property rights



The correct answer is:

Both Confidentiality & Intellectual property rights

Question **52**

Correct

Mark 1.00 out of 1.00

Which one of the following is not a fundamental activity for software processes in software engineering?

- ☐ Software design and implementation
- ☒ Software Verification
- ☐ Software evolution
- ☐ Software Validation



The correct answer is:

Software Verification



Question **53**

Incorrect

Mark 0.00 out of 1.00

Which of the following statements are incorrect?

- A. In XP an automated unit test framework is used to write tests for a new piece of functionality before that functionality itself is implemented.
- B. Developers work individually on a release and they compare their results with other developers before forwarding that release to customers.

- ☒ A and B
- ☐ None of the mentioned
- ☐ A
- ☐ B



The correct answer is:

B

Question **54**

Incorrect

Mark 0.00 out of 1.00

Which of these does not affect different types of software as a whole?

- ☐ Flexibility
- ☐ Heterogeneity
- ☐ Security
- ☒ Business and social change



The correct answer is:

Heterogeneity



Question **55**

Correct

Mark 1.00 out of 1.00

Which are not types of Prototyping Model?

- ☒ Diagonal Prototype
- ☐ Horizontal Prototype
- ☐ Vertical Prototype
- ☐ Domain Prototype



The correct answer is:

Diagonal Prototype

Question **56**

Incorrect

Mark 0.00 out of 1.00

Which of the following statements is correct?

- A. A Use-case actor is always a person having a role that different people may play.
- B. A stakeholder is anyone who will purchase the completed software system under development.
- C. Conflicting requirements are common in Requirement Engineering, with each client proposing his or her version is the right one.

- ☐ A
- ☐ A and B
- ☐ C
- ☐ A and C
- ☒ B and C



The correct answer is:

C



Question **57**

Correct

Mark 1.00 out of 1.00

How many phases are there in Scrum?

- ☐ Two
- ☒ Three
- ☐ Four
- ☐ Scrum is an agile management framework which means it does not have phases



The correct answer is:

Three

Question **58**

Incorrect

Mark 0.00 out of 1.00

Which of the following statements are true?

- A. Spiral Model has high reliability requirements.
- B. RAD Model has high reliability requirements.

- ☐ A only
- ☐ Neither.
- ☒ A and B
- ☐ B only



The correct answer is:

A only

Question **59**

Correct

Mark 1.00 out of 1.00

Select the option that suits the Manifesto for Agile Software Development

- ☒ Customer collaboration
- ☒ Working software
- ☐ Code Refactoring
- ☒ Individuals and interactions



The correct answers are:

Individuals and interactions,

Working software, Customer collaboration

Question **60**

Correct

Mark 1.00 out of 1.00

User requirements are expressed as \_\_\_\_\_ in Extreme Programming.

- ☐ implementation tasks
- ☒ user stories
- ☐ functionalities
- ☒ scenarios
- ☐ none of the mentioned



The correct answers are: scenarios,

user stories

Question **61**

Correct

Mark 1.00 out of 1.00

Is a customer involved in test development and validation in XP?

- ☐ None of the mentioned
- ☐ Yes
- ☒ It may vary from Customer to Customer
- ☐ No



The correct answer is: It may vary from Customer to Customer

Question **62**

Partially correct

Mark 0.80 out of 1.00

As per an IBM report, "31% of the project get cancelled before they are completed, 53% overrun their cost estimates by an average of 189% and for every 100 projects, there are 94 restarts". What is the reason for these statistics ?

- ☒ Lack of adequate training in software engineering
- ☐ None.
- ☐ Management issues in the company
- ☒ Lack of software ethics and understanding



The correct answer is:

Lack of adequate training in software engineering

[◀ Pre-mid-sem \(10%\)](#)

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