# SE Mid-sem Objective Feb 22, 2022

o There is no negative marking.
O Questions may have multiple correct answers.
o Few questions will be of short answer type.
It must be submitted before 9.50 AM manually as auto-submission will not occur.
1
Enter your roll no. *
119CS0102
2
What will be the max slack time of the activities in critical path?
(1 Point)
<b>✓</b> 0
<u> </u>
Sum of all duration of activities
Duration of the previous activity

3

Which one of the following is not a myth regarding software development?

#### (1 Point)

Until the software is coded and is available for testing, there is no way for assessing its
quality

Once the software is demonstrated, the job is done

When my schedule slips, add more software specialists, those with higher skills and longer experience

The environment is only one of the several factors that determine the quality of the end software product!

4

## Question

### (2 Points)

A project consists of six activities. The immediate predecessor of each activity and the est also provided in the table below:

Activity	Immediate Predecessor	Duration(days)
P	-	5
Q	-	1
R	Q	2
S	P,R	4
Т	P	6
U	S,T	3

If all activities other than S take the estimated amount of time, the maximum duration (in activity S without delaying the completion of the project is --?

5

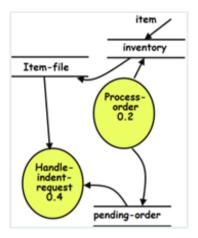
6

Which of these is not one of the phase names defined by the Unified Process model for software development?

(1 Point)

	Inception phase	Requirements analysis and specification
	Elaboration phase	Design
	Construction phase	Coding
<b>/</b>	Validation Phase	✓ Testing
	6	9
	Select the shortcomings of the waterfall model?	Select the correct rules with respect to DFD
	(1 Point)	(1 Point)
<b>/</b>	No feedback paths	✓ All data flows must contain data
<b>/</b>	Difficult to accommodate change requests:	All data flows must begin or end at a process
<b>✓</b>	Inefficient error corrections	Data flowing into or out of a bubble, must match the data flows at the next level of DFD.
<b>✓</b>	No overlapping of phases	None of the above
	7	
	In a DFD, square, circle, arrow and parallel lines are the symbols for	The considerated function point for a software with 4 number of inputs F
	(1 Point)	The unadjusted function point for a software with 4 number of inputs, 5 Number of outputs, 4 Number of inquiries, 10 Number of files, and 10 Number of interfaces will be
<b>/</b>	External entity, Process, Data Flow, Data Store	(2 Points)
	Data Store, Process, Data Flow, External entity	227
	External entity, Data Store, Data Flow, Process	
	External entity, Process, Data Flow, Output	
		11
	8	Activities A, B, and C are the immediate predecessors for Y activity. If the earliest finishing time for the three activities are 12, 15, and 10, then what will be the earliest starting time for Y?
	Among development phases of software life cycle, which phase typically consumes the maximum effort?	(1 Point)
	(1 Point)	(

10	
√ 15	14
12	Choose the correct statement
o	(1 Point)
12	During structured analysis, the SRS document is transformed into a data flow diagram (DFD) model.
Which one of the following is not an incremental model	During structured design, the DFD model is transformed into a structure chart.
(1 Point)	During structured analysis, the DFD model is transformed into a Structure chart.
	During structured design, the SRS is transformed into a DFD model.
Evolutionary model	
Prototype model	15
RAD model	Select the option with correct order of coupling of modules from stronges
Agile model	to weakest
	(1 Point)
13	Content, common, control, stamp, data
Which one of the following is an example of a multivariable cost estimation model?	Common, content, control, stamp, data
(1 Point)	Content, data, common, stamp, control
(110ml)	Data, control, common, stamp, content
Basic COCOMO	
✓ Intermediate COCOMO	16
Complete COCOMO	In the given DFD, following errors are there
Delphi technique	
	(2 Points)

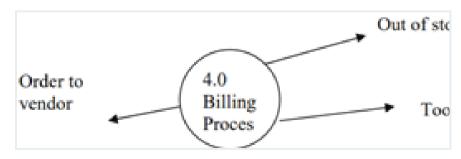


- V Data store can be accessed by a process only
- V Data store to data store flow not allowed
- Unnecessary data flow
- Data Item is not lablled

17

The following portion of a DFD is not correct as

## (1 Point)



- there are many data flows out of the process
- there are no input data flows to the process
- the output does not go to an external entity
- there is no data store

18

Select the shortcomings of the LOC for project size estimation

	ınt)

- ✓ LOC is a measure of coding activity alone
- LOC count depends on the choice of specific instructions
- LOC measure correlates poorly with the quality and efficiency of the code
- LOC does not include function size complexity

19

Which of these are characteristics of a good design?

#### (1 Point)

- Exhibits strong coupling between its modules
- Implements all requirements in the analysis model
- Includes test cases for all components
- Provides a complete picture of the software

20

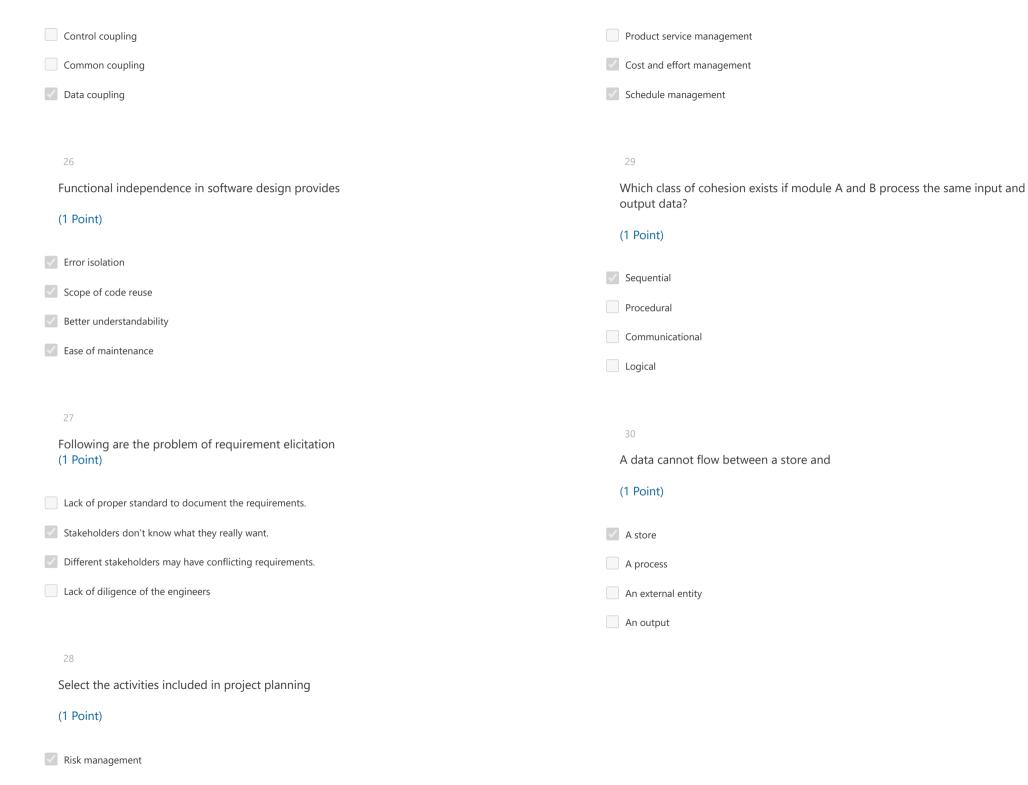
Critical path method

## (1 Point)

- Helps in ascertaining time schedules
- Makes better and detailed planning possible

Provides a standard method for communicating projectost performance	ect plans schedules and to time and	
Provides a probabilistic completion time of each activ	vity	
21		
Question (2 Points)		
(2 Points)		
Identify the class of cohesion in the following ex	(q) Module_print{	
(p) Module_issue_book{ Print-inventory();	void print-grades(student	
Register-Student();	void print-certificates(stu	
Issue-Book();	void print-salary(teacher-	
};	}	
(r) Module_init() {	(s) Module_handle-Student- Data	
Check-memory();	Static Struct Student-dat	
Check-Hard-disk(); Initialize-Ports();	Store-student-data(); Search-Student-data();	
Display-Login-Screen();	Print-all-students();	
}	};	
p-coincidental, q-logical, r-temproal, s-communication p-logical, q-temporal, r-sequential, s-communication		
p-coincidental, q-temporal, r-logical, s-communication		
p-sequential, q-logical, r-temproal, s-coincidental		
22		
Which one of the following is a functional red	quirement?	
(1 Point)		
Maintainability		
Portability		
Robustness		

None of above
23
A software is composed of
(1 Point)
Programs
Data
✓ Document
Code
Algorithms
24
SRS is used as a specification for
(1 Point)
White box testing
Stress Testing
Black box testing
Integrated testing
The desired level of according to
The desired level of coupling is
(1 Point)
No coupling



A pert network has 9 activities on its critical path. The standard deviation of each activity on the critical path is 3. The standard deviation of the critical path is (2 Points) 9 Select the major responsibility of a software project manager (1 Point) Project planning Project Test suite design Implementation and maintenance Project monitoring and control The main objective behind preparing a SRS is to (1 Point) Let client and developers agree that they understand each other Formally note down the design parameters Estimate the cost of development

To judge whether the project could be undertaken

34 Select the correct statement with respect to Software Engineering (1 Point) A Requirement gathering is to fully understand the user requirements. Requirement analysis is performed to remove inconsistencies, anomalies, etc. from Requirement specification is document requirements properly in an SRS document. Requirement review is used to further gathering and analysis of requirements. 35 Select the options which are not the type of maintenance (1 Point) Corrective Maintenance Perfective Maintenance Adaptive Maintenance Regression Maintenance 36 Select the correct statement with respect to DFD (1 Point) Context diagram should represent the system as a single bubble Context diagram should include all the external entities in the system

Context diagram should contain 3-7 bubbles to incorporate major functions of the system

Control information should be incorporated in a DFD to improve readability	Program is meant for few stakeholders while the product may have a number of stakeholders
	Program has long life span while the product has short life span
37	
A module is said to have coincidental cohesion if	40
(1 Point)	Key stakeholders are the one who (1 Point)
it performs a set of tasks that relate to each other very loosely	(1 Foility
if all elements of the module perform similar operations	Significant influence upon or importance within an organization
If all functions are executed in the same time span	Those ultimately most affected by an organization's actions
If the set of functions are executed one after the other	Persons or organizations that are indirectly affected by an organization's actions
	Those who will be impacted the least
38	
Which of the following is not a standard software development process	41
model? (1 Point)	Select the factors contributing to the complexity of managing a software project
Waterflow Model	(1 Point)
V Lean Model	Invisibility
RAD Model	Changeability
V-Model	Uniqueness
	✓ Team-oriented and intellect-intensive work
39	
Select the correct options with respect to programing vs product (1 Point)	42
	The SRS is said to be consistent if and only if(1 Point)
Program are generally developed using the existing programs	
Products are generally developed using the existing products	Its structure and style are such that any changes to the requirements can be made easily while retaining the style and structure

Every requirement stated therein is one that the software shall meet
Every requirement stated therein is verifiable
Requirement does not conflict with other requirements in the requirement specification
43
What is the typical relationship between coupling and cohesion?
(1 Point)

There is no relationship between coupling and cohesion.

As cohesion increases, coupling increases.

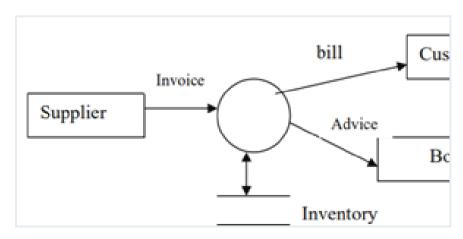
As cohesion increases, coupling decreases

none of them

44

The following portion of DFD is wrong as

# (1 Point)



it has only one input

it writes and reads from the same data store
the process name is missing
output data flows to two external entities
45
Two modules are stamp couples if
(1 Point)
they communicate using an elementary data item that is passed as a parameter between the two
they communicate using a composite data item
data from one module is used to direct the order of instruction execution in another
they share some global data items
46
COCOMO stands for
(1 Point)
COnsumed COst MOdel
COnstructive COst MOdel
COmmon COntrol MOdel
COmposition COst MOdel

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