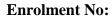
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UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, July 2020

Course: Software Engineering and Project Management

Semester: IV

Program: AI&ML Time:02 hrs.

Course Code:CSEG2008 Max. Marks: 100

Instructions: Use of calculators and other electronic devices is prohibited

S	Тур									
Ν	e				Options					
1	MC	Software consists of	Set of instructio ns + operating procedure s	Incorrec t	Programs + documentatio n + operating procedures	Correct	Programs + hardware manuals	Incorrect	Set of Programs	Incorrec t

2	МС	What are the characteristics of software?	Software can be custom built or custom build	Incorrec t	Software doesn't " wear out ".	Incorrect	All of the mentione d	Correct	Software is develope d or engineere d; it is not manufact ured in the classical sense.	Incorrec t
3	MC	Type of program which is designed for users to customize the program is	shareware	Incorrec t	macros	Incorrect	open source software	Incorrect	freeware	Correct
4	MC	What often-false assumption does the waterfall model made about requirements specifications?	specificati ons are predictabl e	Incorrec t	all of the mentioned	Correct	specificati ons are stable	Incorrect	specificati ons have low change rates	Incorrec t
5	MC	The waterfall model for software development is	A reasonabl e approach when requirem ents are well defined	Correct	A good approach when a working program is required quickly	Incorrect	The best approach to use for projects with large developm ent teams	Incorrect	An old fashioned model that is rarely used any more.	Incorrec t

6	MC	The incremental model of software development is	An old fashioned model that is rarely used any more.	Incorrec t	The best approach to use for projects with large development teams	Incorrect	A reasonabl e approach when requirem ents are well defined	Incorrect	a good approach when a working core product is required quickly	Correct
7	MC	The prototyping model of software development is	A reasonabl e approach when requireme nts are well defined	Incorrec t	The best approach to use for projects with large development teams	Incorrect	A useful approach when a customer cannot define requirem ents clearly	Correct	A risky model that rarely produces a meaningf ul products	Incorrec t
8	МС	The spiral model of software development	Ends with the delivery of the software product	Incorrec t	include project risk evaluation during each iteration	Correct	Is more chaotic than the incremen tal model	Incorrect	All of the mentione d	Incorrec t

9	МС	The rapid application development model is	a high speed adaption of the linear sequentia I model	Correct	another name for component- based development	Incorrect	A useful approach when a customer cannot define requirem ents clearly	Incorrect	All of the mentione d	Incorrec t
10	MC	Which of the following are advantages of iterative model?	Early revenue generatio n	Incorrec t	Simpler to manage	Incorrect	All of the mentione d	Correct	Early feedback	Incorrec t
11	MC	Which of these factors complicate decision making by global software teams	All of the mentione d	Correct	complexity of the problem	Incorrect	different views of the problem	Incorrect	risk associate d with the decision	Incorrec t
12	MC	The system specification describes the	time required for system simulatio n	Incorrec t	element software architecture	Incorrect	Function, performa nce and constrain ts of a computer based system	Correct	implemen tation of each allocated system	Incorrec t
13	MC	Which of the following is not a UML diagram used creating a system analysis model?	state diagram	Incorrec t	class diagram	Incorrect	activity diagram	Incorrect	dataflow diagram	Correct

14	MC	The result of the requirements engineering task is an analysis model that defines which of the following problem domain?	informati on	Incorrec t	all of the mentioned	Correct	functional	Incorrect	behaviora 	Incorrec t
15	MC	The entity relationship diagram	depicts function that transform the data flow	Incorrec t	depicts relationship between data objects	Correct	indicates how data are transform ed by the system	Incorrect	indicates system reractions to external events	Incorrec t
16	MC	Which is not a characteristic of a good SRS?	Correct	Incorrec t	Brief	Correct	Complete	Incorrect	Consisten t	Incorrec t
17	MC	After SRS, we may like to estimate	Size	Incorrec t	Cost	Incorrect	All of the mentione d	Correct	Develop ment	Incorrec t
18	MC	The weak entities are represented in UML diagrams by using aggregations called	qualified aggregati on	Correct	qualified segregation	Incorrect	non qualified segregati on	Incorrect	non qualified aggregati on	Incorrec t
19	MC	In UML diagrams, the relationship between object and component parts is represented	ordination	Incorrec t	aggregation	Correct	segregati on	Incorrect	incremen t	Incorrec t
20	MC	SRS document is also known as specification.	white box	Incorrec t	grey box	Incorrect	black box	Correct	blue box	Incorrec t
21	MC	Which of the following is a part of SRS?	Cost	Incorrec t	Delivery Schedule	Incorrect	Staffing	Incorrect	Design constrain ts	Correct

22	MC	Which one is not the part of SRS?	Performa nce	Incorrec t	Design solutions	Correct	Functiona lity	Incorrect	External Interfaces	Incorrec t
23	MC	The Data Flow Diagram(DFD) shows	flow of data	Incorrec t	the process	Incorrect	All of the mentione	Correct	the area where they are stored	Incorrec t
24	MC	In DFD, an originator or reciever of that data is usually designated by	a circle	Incorrec t	an arrow	Incorrect	squarebo x	Incorrect	rectangle	Correct
25	MC	Which of the following is not desired in a good SRS document	non functional requireme nts	Incorrec t	algorithms for software implementati on	Correct	functional requirem ent	Incorrect	goals of implemen tation	Incorrec t
26	МС	Many documentation tools are available to explain how a system works. Which tool provides a graphical description of the sources and destinations of data as well as data flow within the organization and the processes that transform and store that data?	Data Flow Diagram	Correct	System Flowchart	Incorrect	Documen t Flowchart	Incorrect	Program Flowchart	Incorrec t
27	MC	Which of the following is not a guideline for drawing a Data Flow Diagram (DFD)?	Develop a context diagram	Incorrec t	Subdivide the DFD	Incorrect	Determin e system boundari es	Incorrect	Display the physical location of data files	Correct

28	MC	In RAD model, information gathered in business modeling phase is reviewed and analyzed to form sets of data objects vital for business in	Buisness Modeling	Incorrec t	Process Modeling	Incorrect	Data modeling	Correct	Deploym ent Modeling	Incorrec t
29	МС	The principle of Albrecht's function point analysis (FPA) is that a system is decomposed into functional units. How many functional units are there in it?	1	Incorrec t	5	Correct	3	Incorrect	4	Incorrec t
30	MC	Internal logical files and external interface files are	Data Function type	Correct	Transactional Function type	Incorrect	Non Functiona type	Incorrect	None of the mentione d	Incorrec t
31	MC	Consider a with the following functional units: Number of user inputs=60, Number of user outputs = 40, Number of user enquiries=35, Number of user files =6, Number of external interfaces= 04; What will be the value of UFP by considering that all CAF and weighting factors are average?	628	Incorrec t	1028	Incorrect	668	Correct	776	Incorrec t

32	MC	Consider a with the following functional units: Number of user inputs=60, Number of user outputs = 40, Number of user enquiries=35, Number of user files =6, Number of external interfaces= 04; What will be the value of FP by considering that CAF is 1.07 and weighting factors are average?	715	Correct	672	Incorrect	772	Incorrect	615	Incorrec t
33	MC	An application has the following: 20 low external inputs, 12 high external inputs, 10 low internal logical files, 15 high external interface files and 12 average external inquiries and the value of CAF is 1.10. What will be the value of unadjusted function point?	452	Incorrec t	462	Incorrect	412	Correct	512	Incorrec t
34	MC	An application has the following: 20 low external inputs, 12 high external inputs, 10 low internal logical files, 15 high external interface files and 12 average external inquiries and the value of CAF is 1.10. What will be the value of function point?	497	Incorrec t	597	Incorrect	557	Incorrect	453	Correct

35	МС	The number of people required for a software project is determined	by the size of project budget	Incorrec t	after an estimate of the development effort is made	Correct	from an assesmen t of the technical complexit y of the system	Incorrect	All of the mentione d	Incorrec t
36	MC	Suppose that a project was estimated to be 300 KLOC. Calculate the effort for organic mode.	1295.31	Incorrec t	957.6	Correct	1395.31	Incorrect	857.6	Incorrec t
37	MC	Suppose that a project was estimated to be 300 KLOC. Calculate the development time for organic mode.	38.07	Incorrec t	33.94	Correct	48.07	Incorrect	43.94	Incorrec t
38	MC	A project size of 200 KLOC is to be developed. Software development team has average experience on similar type of projects. The project schedule is not very tight. Calculate the average staff size of the project.	32.67	Incorrec t	34.44	Incorrect	38.67	Correct	43.26	Incorrec t
39	MC	A project size of 200 KLOC is to be developed. Software development team has average experience on similar type of projects. The project schedule is not very tight. Calculate the productivity of the project.	176	Correct	136	Incorrect	156	Incorrect	186	Incorrec t

40	МС	In Intermidiate COCOMO Model, complexity of the product is a part of	hardware attributes	Incorrec t	product attributes	Correct	personal attributes	Incorrect	project attributes	Incorrec t
41	MC	In Intermidiate COCOMO Model, programming language experience of the product is a part of	hardware attributes	Incorrec t	product attributes	Incorrect	personal attributes	Correct	project attributes	Incorrec t
42	MC	A new project with estimated 400 KLOC embedded system has to be developed. Developers of low quality but a lot of experience with the programming language. What is the value of effort estimation?	3528 PM	Incorrec t	5528 PM	Incorrect	3458 PM	Incorrect	4528 PM	Correct
43	МС	A company projecting revenue of 64 lacs in first year and the revenue is going to increase by 25% every year for the next 3 years in succession, after which revenue decreases by 20 lacs in the fifth year and thus will be closed after 5 years. The fixed initial investment for the project is 120 lacs and working capital requirement is 60 lacs. Compute payback for the project.	3.553 years	Incorrec t	3.853 years	Incorrect	2.853 years	Correct	2.553 years	Incorrec t

44	МС	A company projecting revenue of 64 lacs in first year and the revenue is going to increase by 25% every year for the next 3 years in succession, after which revenue decreases by 20 lacs in the fifth year and thus will be closed after 5 years. The fixed initial investment for the project is 120 lacs and working capital requirement is 60 lacs. Compute ROI for the project.	43.67%	Incorrec t	22.67%	Incorrect	33.67%	Incorrect	32.67%	Correct
45	MC	A company projecting revenue of 64 lacs in first year and the revenue is going to increase by 25% every year for the next 3 years in succession, after which revenue decreases by 20 lacs in the fifth year and thus will be closed after 5 years. The fixed initial investment for the project is 120 lacs and working capital requirement is 60 lacs. Compute NPV assuming 12.5% discount rate for the project.	Rs. 14463300 0	Incorrec t	Rs. 14663000	Correct	Rs. 13463300 0	Incorrect	Rs. 14466600 0	Incorrec t

46	MC	One of the most important attributes for software product metric is that it should be	easy to compute	Correct	qualitative in nature	Incorrect	reliable over time	Incorrect	widely applicabl e	Incorrec t
47	MC	Which of the following is comes under indirect measure of product?	Complexit y	Incorrec t	Reliability	Incorrect	Quality	Incorrect	All of the mentione d	Correct
48	MC	Usability can be measured in terms of	Time required to become moderatel y efficient in system usage	Incorrec t	Intellectual skill to learn the system	Incorrect	All of the mentione d	Correct	Net increase in productivi ty	Incorrec t
49	МС	What is the normal order of activities in which traditional software testing is organized?	integratio n testing, system testing, unit testing, validation testing	Incorrec t	unit testing, integration testing, validation testing, system testing	Correct	unit testing, validation testing, system testing, integratio n testing	Incorrect	validation testing, system testing, unit testing, integratio n testing	Incorrec t
50	MC	During unit testing, which of the following need to be assessed?	error handling & execution path	Correct	code stability	Incorrect	error handling only	Incorrect	execution path only	Incorrec t
51	TF	Boundary value analysis can only be used to do white- box testing	TRUE	FALSE						

52	MC	Which testing phase tests individual software modules combined together as a group?	Integrati on testing	Correct	Module Testing	Incorrect	White- Box Testing	Incorrect	Software Testing	Incorrec t
53	MC	Statement Covergare will not check for the following	Unused branches	Incorrec t	Dead Code	Incorrect	Missing Statemen t	Correct	Unused statemen t	Incorrec t
54	MC	Equivalance Partitioning is	A black box testing technique used only by developer	Incorrec t	A white box testing technique appropriate for component testin	Incorrect	None of the mentione d	Incorrect	A black box testing techniqu e appropria te to all levels of testing	Correct
55	MC	Before launching a software which testing is to be done in-house?	Beta	Incorrec t	Alpha	Correct	Gamma	Incorrect	None of the mentione d	Incorrec t
56	MC	Which of the following is not one of three software productaspects address by McCall's software quality factors	ability to undergo change	Incorrec t	production cost & scheduling	Correct	operation al characteri stics	Incorrect	adaptibilit y to new environm ents	Incorrec t
57	MC	Which of the following are ISO 9126 software quality factors?	Fuctionali ty only	Incorrec t	Functionality, Portability & Reliability	Correct	Portabilit y only	Incorrect	Reliability Only	Incorrec t

58	MC	Three Categories of risk are	buisness risks, personnel risks & budget risks	Incorrec t	planning risks, technical risks & personnel risks	Incorrect	project risks , technical risks & buisness risk	Correct	managem ent risks, technical risks & design risks	Incorrec t
59	MC	Project manager will also be involved in making choice that require balancing in	Goal of the project & Goals of the firm	Correct	Goals of the resources	Incorrect	Goals of the project only	Incorrect	Goals of the firm only	Incorrec t
60	MC	Of the following management skills, which will a project manager use most?	leading	Incorrec t	communicatin g	Correct	influencin g the organizati on	Incorrect	Negotiati ng	Incorrec t