


Name: Enrolment No:	 UPES <small>UNIVERSITY WITH A PURPOSE</small>
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, July 2020	
Course: Software Quality Management Program: B.Tech (CSE+BAO)	Semester: VI Time : 02 hrs.
Course Code: CSEG3014	Max. Marks: 100

SN	Type	Question	Options							
1	MC	Which of the following is not one of the attributes of software quality?	Adds values for developers and users	Incorrect	Removes needs to consider performance issues	Correct	Effective software process creates infrastructure	Incorrect	Useful product satisfies stakeholder requirement	Incorrect
2	MC	Which requirements are the foundation from which quality is measured?	Hardware	Incorrect	Programmers	Incorrect	Software	Correct	None of the mentioned	Incorrect
3	MC	Which of the following management decision have the potential to impact software quality?	Estimation decisions	Incorrect	Risk oriented decisions	Incorrect	Scheduling decisions	Incorrect	All of the mentioned	Correct

4	MC	The quality attributes can be calculated under which of the following measures?	Observable	Incorrect	all of the mentioned	Correct	Non observable	Incorrect	None of the mentioned	Incorrect
5	MC	Quality costs may be divided into costs associated with	Prevention, appraisal and failure	Correct	People, Process and product	Incorrect	Customers, developers and maintenance	Incorrect	All of the mentioned	Incorrect
6	MC	Which of the following is likely to be the most expensive cost of quality?	Appraisal Cost	Incorrect	Internal Failure costs	Incorrect	Prevention Costs	Incorrect	External failure costs	Correct
7	MC	Which of the following is not included in failure costs?	Rework	Incorrect	Repair	Incorrect	None of the mentioned	Correct	Failure mode analysis	Incorrect
8	MC	Which of the following is not included in External failure costs?	help line support	Incorrect	testing	Correct	warranty work	Incorrect	complaint resolution	Incorrect
9	MC	Inspections and testing are what kinds of Quality Costs?	appraisal	Correct	Internal Failure	Incorrect	External failure	Incorrect	prevetion	Incorrect
10	MC	Defect Removal Effectiveness is a part of	Product Quality Metrics	Inorrect	In Process Quality Process	Correct	Maintenance Quality Metrics	Incorrect	None of the mentioned	Incorrect
11	MC	Informal review may consist of which of the following	casual meeting & desk checks	Correct	inspection	Incorrect	pair programming	Incorrect	All of the mentioned	Incorrect

12	MC	Select the objective of formal technical reviews	allow senior members to correct errors	Incorrect	assess programmer capacity	Incorrect	uncover errors in software work products	Correct	determining who introduce an error into the program	Incorrect
13	MC	The primary objective of formal technical reviews is to find _____ during the process so that they do not become defects after release of the software.	failure cause	Incorrect	equivalent faults	Incorrect	None of the mentioned	Incorrect	errors	Correct
14	MC	Software metrics can be classified into	people, person and product	Incorrect	product , process and project metrics	Correct	program, people and production	Incorrect	None of the mentioned	Incorrect
15	MC	Many software metrics can only be measured indirectly	FALSE	Incorrect	TRUE	Correct	Can't say	Incorrect	None of the mentioned	Incorrect
16	MC	Mean Time to Failure is a part of	Product Quality Metrics	Correct	In Process Quality Process	Incorrect	Maintenance Quality Metrics	Incorrect	None of the mentioned	Incorrect
17	MC	Defect Removal Effectiveness is a part of	Product Quality Metrics	Incorrect	In Process Quality Process	Correct	Maintenance Quality Metrics	Incorrect	None of the mentioned	Incorrect

18	MC	Fix Response time and fix responsiveness is a part of	Product Quality Metrics	Inorre ct	In Process Quality Process	Incorr ect	Maintenance Quality Metrics	Corre ct	None of the mentioned	Incorrect
19	MC	Customer Satisfaction is a part of	Product Quality Metrics	Corre ct	In Process Quality Process	Incorr ect	Maintenance Quality Metrics	Incorr ect	None of the mentioned	Incorrect
20	MC	Mean time between Failure is	The expected time between two successive failures of a system	Corre ct	Expected time to failure of a system	Incorr ect	Can't Say	Incorr ect	Both A & B	Incorrect
21	MC	Cost of control failure is a part of	Internal Failure Cost	Inorre ct	External Failure Cost	Incorr ect	Both	Corre ct	None of the mentioned	Incorrect
22	MC	3 P's of Software Measurement is	Product, Process and People	Corre ct	Public, Private and Protected	Incorr ect	Product, Process and Project	Incorr ect	None of the mentioned	Incorrect

23	MC	Metrics for software maintenance include	Fix Backlog and Backlog Management Index	Incorrect	Fix Response Time and Fix Responsiveness	Incorrect	All of the mentioned	Correct	Percent Delinquent Fixes and fix quality	Incorrect
24	MC	In which term usability can be measured ?	Intellectual skill to learn the system	Incorrect	The time required to become moderately efficient in system usage	Incorrect	Net increase in productivity	Incorrect	All of the mentioned	Correct
25	MC	What is the crucial characteristic of software metric	reliable	Incorrect	all of the mentioned	Correct	relevant	Incorrect	valid	Incorrect
26	MC	Which metric is related to the software development process	process	Correct	development	Incorrect	software	Incorrect	product	Incorrect
27	MC	Quality indicators used in the software testing & development life cycle are	15 in numbers	Incorrect	None of the mentioned	Incorrect	5 in numbers	Incorrect	10 in numbers	Correct

28	MC	Mean time between Failure is	The expected time between two successive failures of a system	Correct	Expected time to failure of a system	Incorrect	Can't Say	Incorrect	None of the mentioned	Incorrect
29	MC	Mean Time to Failure is a part of	Product Quality Metrics	Correct	In Process Quality Process	Incorrect	Maintenance Quality Metrics	Incorrect	None of the mentioned	Incorrect
30	MC	Which is not a part of quality plan	Debugging	Correct	work verification	Incorrect	Testing parameters	Incorrect	Audit	Incorrect
31	MC	Software Quality Control is limited to	Error correction & detection	Incorrect	planning and production	Incorrect	Reviews & Testing	Correct	None of the mentioned	Incorrect
32	MC	The process/rules for developing a zero defect software are	The defects must be fixed on everyday basis , regularly review the code	Incorrect	Quality modules must be re written, debugging of code effectively	Incorrect	All of the mentioned	Correct	Learning from previous bugs.	Incorrect

33	MC	Which of the following is not a SQA plan for a project?	audits and reviews to be performed	Incorrect	evaluations to be performed	Incorrect	documents to be produced by the SQA group	Incorrect	amount of technical work	Correct
34	MC	Which of the following is not an appraisal cost in SQA?	testing	Incorrect	quality planning	Correct	designing	Incorrect	maintenance	Incorrect
35	MC	Software safety is a quality assurance activity that focus on hazards that	may result from user input errors	Incorrect	may cause an entire system to fail	Correct	affect the reliability of software component	Incorrect	prevent profitable marketing to the final product	Incorrect
36	MC	Identifies, documents, and verifies is done by _____ that corrections have been made to the software?	Project manager	Incorrect	SQA group	Correct	project team	Incorrect	All of the mentioned	Incorrect
37	MC	The objective of ISO-9000 family of Quality management is	skill enhancement	Incorrect	environmental issues	Incorrect	customer satisfaction	Correct	employee satisfaction	Incorrect
38	MC	Total quality management focus on	employee and customer	Correct	employee only	Incorrect	customer only	Incorrect	None of the mentioned	Incorrect
39	MC	When a manager monitors the work performance of workers in his department to determine if the quality of	planning	Incorrect	controlling	Correct	Testing	Incorrect	All of the mentioned	Incorrect

		their work is 'up to standard', this manager is engaging in which function?								
40	MC	Which of the following are key components of a Total Quality Management system?	individual responsibility, incremental improvement, use of raw data	Incorrect	involves everyone, individual responsibility, incremental improvement	Incorrect	involves everyone, continual improvement, use of data & knowledge	Correct	incremental improvement, individual responsibility	Incorrect
41	MC	Quality in manufacturing means that at a _____, all production must be within specification limits and the _____ variation from the nominal, the better the quality.	minimum, more	Incorrect	maximum, less	Incorrect	maximum, more	Incorrect	minimum, less	Correct
42	MC	TQM & ISO both focuses on	Employee	Incorrect	supplier	Incorrect	Customer	Correct	All of the mentioned	Incorrect
43	MC	Verification and Validation uses _____.	External and internal resource respectively	Incorrect	internal resource only	Incorrect	external resource only	Incorrect	Internal and External resources respectively	Correct

44	MC	What is "V" model?	Test design technique	Incorrect	SDLC	Correct	test level	Incorrect	test type	Incorrect
45	MC	Software Verification process involves	All of the mentioned	Correct	Reviews	Incorrect	Meetings	Incorrect	Inspections	Incorrect
46	MC	Software Validation involves	Black Bos Testing	Incorrect	White Box Testing	Incorrect	Grey Box Testing	Incorrect	All of the mentioned	Correct
47	MC	A testing oracle is a mechanism that can be used for determining whether a test has	pass	Incorrect	failed	Incorrect	pass or failed	Correct	None of the mentioned	Incorrect
48	MC	What is the normal order of activities in which traditional software testing is organized?	integration testing, system testing, unit testing , validation testing	Incorrect	unit testing, integration testing, validation testing, system testing	Correct	unit testing, validation testing, system testing, integration testing	Incorrect	validation testing, system testing, unit testing, integration testing	Incorrect
49	MC	_____ is performed on the 'new' build given by developers to QA team to verify if the basic functionalities are working or not.	Smoke Testing	Correct	Component Testing	Incorrect	Sanity Testing	Incorrect	Mutation	Incorrect
50	MC	When a new build is received with minor	Smoke Testing	Incorrect	Component Testing	Incorrect	Sanity Testing	Correct	Mutation	Incorrect

		modifications, instead of running a thorough regression test suite we perform a _____								
51	MC	_____ Testing is a type of Software Testing that is performed to design new software tests and also evaluate the quality of already existing software tests.	Mutation	Correct	Smoke	Incorrect	Component	Incorrect	Sanity	Incorrect
52	MC	_____ is conducted to push the application beyond its capabilities to observe how it reacts.	Smoke Testing	Incorrect	Mutation Testing	Incorrect	Stress Testing	Correct	Sanity Testing	Incorrect
53	MC	To check whether coding standards are followed, which type of testing will be beneficial?	Dynamic Testing	Incorrect	Computation Testing	Incorrect	Parameter Testing	Incorrect	Static Testing	Correct
54	MC	Which are the benefits of Static Testing?	Early feedback of a quality.	Incorrect	all of the mentioned	Correct	Less rework costs	Incorrect	Increased developmental productivity.	Incorrect
55	MC	What is true about Static Analysis Tools?	It can detect memory leaks	Incorrect	It gives quality information about code without executing it.	Correct	It tells about percentage of code coverage.	Incorrect	It compares actual and expected result.	Incorrect

56	MC	_____ are statistical models which can be used to make predictions about a software system's failure rate, given the failure history of the system.	Incremental Models	Incorrect	Software Reliability Models	Correct	Software quality assessment model	Incorrect	waterfall models	Incorrect
57	MC	What are the steps to be included to model software reliability.	Examine the data, Select a model	Incorrect	Estimate the parameters of the model, Obtain the fitted model	Incorrect	All of the mentioned	Correct	perform a goodness-of-fit test, Make reliability predictions based on the fitted model.	Incorrect
58	MC	_____ is regarded as a well-accepted approach for assessing, managing and improving software product quality	Quality Model	Correct	Software Reliability Model	Incorrect	Incremental model	Incorrect	waterfall model	Incorrect
59	MC	_____ is a metric-based approach to assess the software quality.	Software reliability model	Incorrect	Quality Assessment Model	Correct	Incremental model	Incorrect	waterfall model	Incorrect
60	MC	The Rayleigh Model comes under which model?	Incremental Models	Incorrect	Software Reliability Models	Correct	All of the mentioned	Incorrect	waterfall model	Incorrect