

Name:

Enrolment No:



**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**

**End Semester Examination, July 2020**

**Course: Software Quality Management**

**Program: BFSI**

**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	<b>Incorrect</b>	Removes needs to consider performance issues	<b>Correct</b>	Effective software process creates infrastructure	<b>Incorrect</b>	Useful product satisfies stakeholder requirement	<b>Incorrect</b>
2	MC	Which requirements are the foundation from which quality is measured?	Hardware	<b>Incorrect</b>	Programmers	<b>Incorrect</b>	Software	<b>Correct</b>	None of the mentioned	<b>Incorrect</b>
3	MC	Which of the following management decision have the potential to impact software quality?	Estimation decisions	<b>Incorrect</b>	Risk oriented decisions	<b>Incorrect</b>	Scheduling decisions	<b>Incorrect</b>	<b>All of the mentioned</b>	<b>Correct</b>

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

12	MC	Select the objective of formal technical reviews	allow senior members to correct errors	<b>Incorrect</b>	assess programmer capacity	<b>Incorrect</b>	<b>uncover errors in software work products</b>	<b>Correct</b>	determining who introduce an error into the program	<b>Incorrect</b>
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	<b>Incorrect</b>	equivalent faults	<b>Incorrect</b>	None of the mentioned	<b>Incorrect</b>	<b>errors</b>	<b>Correct</b>
14	MC	Software metrics can be classified into	people, person and product	<b>Incorrect</b>	<b>product , process and project metrics</b>	<b>Correct</b>	program, people and production	<b>Incorrect</b>	None of the mentioned	<b>Incorrect</b>
15	MC	Many software metrics can only be measured indirectly	FALSE	<b>Incorrect</b>	<b>TRUE</b>	<b>Correct</b>	Can't say	<b>Incorrect</b>	None of the mentioned	<b>Incorrect</b>
16	MC	Mean Time to Failure is a part of	Product Quality Metrics	<b>Correct</b>	<b>In Process Quality Process</b>	<b>Incorrect</b>	Maintenance Quality Metrics	<b>Incorrect</b>	None of the mentioned	<b>Incorrect</b>
17	MC	Defect Removal Effectiveness is a part of	Product Quality Metrics	<b>Inorrect</b>	<b>In Process Quality Process</b>	<b>Correct</b>	Maintenance Quality Metrics	<b>Incorrect</b>	None of the mentioned	<b>Incorrect</b>

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

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

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

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

		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	<b>Incorrect</b>	involves everyone, individual responsibility, incremental improvement	<b>Incorrect</b>	involves everyone, continual improvement, use of data & knowledge	<b>Correct</b>	incremental improvement, individual responsibility	<b>Incorrect</b>
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	<b>Incorrect</b>	maximum, less	<b>Incorrect</b>	maximum, more	<b>Incorrect</b>	minimum, less	<b>Correct</b>
42	MC	TQM & ISO both focuses on	Employee	<b>Incorrect</b>	supplier	<b>Incorrect</b>	<b>Customer</b>	<b>Correct</b>	All of the mentioned	<b>Incorrect</b>
43	MC	Verification and Validation uses _____.	External and internal resource respectively	<b>Incorrect</b>	internal resource only	<b>Incorrect</b>	external resource only	<b>Incorrect</b>	<b>Internal and External resources respectively</b>	<b>Correct</b>



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

		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.	<b>Mutation</b>	<b>Correct</b>	Smoke	<b>Incorrect</b>	Component	<b>Incorrect</b>	Sanity	<b>Incorrect</b>
52	MC	_____ is conducted to push the application beyond its capabilities to observe how it reacts.	Smoke Testing	<b>Incorrect</b>	Mutation Testing	<b>Incorrect</b>	<b>Stress Testing</b>	<b>Correct</b>	Sanity Testing	<b>Incorrect</b>
53	MC	To check whether coding standards are followed, which type of testing will be beneficial?	Dynamic Testing	<b>Incorrect</b>	Computation Testing	<b>Incorrect</b>	Parameter Testing	<b>Incorrect</b>	<b>Static Testing</b>	<b>Correct</b>
54	MC	Which are the benefits of Static Testing?	Early feedback of a quality.	<b>Incorrect</b>	<b>all of the mentioned</b>	<b>Correct</b>	Less rework costs	<b>Incorrect</b>	Increased developmental productivity.	<b>Incorrect</b>
55	MC	What is true about Static Analysis Tools?	It can detect memory leaks	<b>Incorrect</b>	It gives quality information about code without executing it.	<b>Correct</b>	It tells about percentage of code coverage.	<b>Incorrect</b>	It compares actual and expected result.	<b>Incorrect</b>

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