

CHRISTIAN SERVICE UNIVERSITY COLLEGE KUMASI

FACULTY OF HEALTH & APPLIED SCIENCE DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY BACHELOR OF SCIENCE IN COMPUTER SCIENCE

End of First Semester Examination - 2018/2019 Academic Year

LEVEL 400

BSIT 406: SOFTWARE QUALITY ASSURANCE

May, 2018

70 Marks

Time Allowed: 2Hours

GENERAL INSTRUCTIONS TO CANDIDATES

- i. Answer all the questions in section A
- ii. Answer section **A** on the question paper by **circling** the correct answer. Unless otherwise stated, make only one choice throughout as two choices would be marked wrong.
- iii. Write your index number on top of each page of the question paper

Examiner: Emmanuel Abaidoo

ndex Number	Signature	Date
	SECTION A	
		B. Section A is made up of fifty (50) in this section. One (1) mark for each
1. The IEEE 829 test plan doc	umentation standard contains a	all of the following except
a) Test itemsb) Test deliverablesc) Test specificationsd) Test tasks		
2. Which of the following is tr	ue?	
b) The more tests you run,c) The fewer bugs you find	Id be black box, system testing the more bugs you will find. , the better your testing was in testing, you should not be ve	should be white box. ery confident about the quality of
3. The primary objective of for they do not become defects aft a) errors b) equivalent faults c) failure cause d) none of the mentioned		d during the process so that
4. A deviation from the specifi	ied or expected behavior that is	s visible to end-users is called:
a) An errorb) A failurec) A faultd) A defect		
5. Code Coverage is used as a	measure of what?	
a) Defectsb) Trends analysisc) Test Effectivenessd) Time Spent Testing		
5. Evaluating testability of the	requirements and system are a	part of which phase
a) Test Analysis and Designb) Test Planning and controlc) Test Implementation andd) Evaluating exit criteria a	ol execution	



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7. Which of the following techniques is I	NOT a black box te	chnique?	
a) State transition testingb) LCSAJ (Linear Code Sequence andc) Syntax testingd) Boundary value analysis	d Jump)		
8. When reporting faults found to develo	pers, testers should	be:	
a) As polite, constructive and helpfulb) Diplomatic and sensitive to the wayc) Firm about insisting that a bug is notd) All of the above	y they may react to		
9. The later in the development life cycle	e a fault is discovere	d, the more expensive it is to fix. Why	у?
a) The documentation is poor, so it talb) The fault has been built into morec) Wages are risingd) None of the above		S	
10. What is the main reason for testing so	oftware before relea	sing it?	
a) To decide when the software is of sb) To show that system will work aftec) To find as many bugs as possible bd) To give information for a risk base	er release efore release		
11. Which of the following is NOT inclu Standard?	ded in the Test Plar	document of the Test Documentation	L
a) What is not to be testedb) Schedules and deadlinesc) Quality plansd) Test environment properties			
12. Which statement about expected outc	comes is FALSE?		
a) Expected outcomes are defined byb) Expected outcomes may include tirc) Expected outcomes should be predicted outcomes are derived from	ning constraints suc acted before a test is	h as response times run	



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13. Which one of the following	describes the major benefit of ve	rification early in the life cycle?
b) It reduces defect multiplicac) It facilitates timely set up of		
14. Which of the following is No	OT included in failure costs?	
a) reworkb) repairc) failure mode analysisd) none of the mentioned		
15. Which requirements are the	foundation from which quality is	s measured?
a) Hardwareb) Softwarec) Programmersd) None of the mentioned		
16. Which of the following is N	OT a SQA plan for a project?	
a) evaluations to be performeb) amount of technical workc) audits and reviews to be ped) documents to be produced	erformed	
17. The degree to which design	specifications are followed in ma	anufacturing the product is called
a) Quality Controlb) Quality of conformancec) Quality Assuranced) None of the mentioned		
18. Which of the following is No	OT included in External failure	costs?
a) testingb) help line supportc) warranty workd) complaint resolution		
19. Which of the following is nota) inter-process inspectionb) maintenancec) quality planningd) testing	ot an appraisal cost in SQA?	

 20. Who identifies, documents, and verifies that corrections have been made to the softwall all project manager b) Project team c) SQA group d) All of the mentioned 	vare?
21. Which one of the following describes the major benefit of verification early in the li	fe cycle?
a) It allows the identification of changes in user requirements.b) It reduces defect multiplication.c) It facilitates timely set up of the test environment.d) It allows testers to become involved early in the project.	
22. Which of the following is a form of functional testing?	
a) Usability testingb) Boundary value analysisc) Performance testingd) Security testing	
23. Which of the following should NOT normally be an objective for a test?	
a) To find faults in the software.b) To assess whether the software is ready for release.c) To prove that the software is correct.d) To demonstrate that the software doesn't work.	
24. Enough testing has been performed when:	
a) No more faults are found.b) The required level of confidence has been achieved.c) Time runs out.d) The users won't find any serious faults.	
25. Which of the following statements are true?	
a) Faults in program specifications are the most expensive to fix.b) Faults in code are the most expensive to fix.c) Faults in designs are the most expensive to fix.d) Faults in requirements are the most expensive to fix	
26. When should you stop testing?	
a) When time for testing has run out.b) When the test completion criteria have been met	

Date ____

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c) When all planned tests have been run

d) When no faults have been found by the tests run



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27. In which order should testsa) The most important tests fb) The order they are thoughtc) The easiest tests first(to gird) The most difficult tests first	irst t of	fixing)
b) The acceptance test does nc) Verification activities show	be as similar to production envelor necessarily include a regressald not involve testers (reviews	ssion test
 29. When should testing be stop a) When all the planned tests b) When all faults have been c) When time has run out d) It depends on the risks for 30. To achieve quality (i.e., defend) a) Close cooperation between 	have been run fixed correctly the system being tested ect free products and services).	, we require
b) Commitmentc) An environment in whichd) All of the above 31. The effort required for locat		perational program is known as
a) Testabilityb) Maintainabilityc) Usabilityd) Efficiency		
32. An error that is caused duea) Faulty definition of requirb) Client-developer communc) Deliberate deviations fromd) Logical design errors	ements nication failures	n be classified as



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33. Erroneous algorithms in sota) Faulty definition of requib) Coding errors	rements	
c) Non-compliance with dood) Logical design errors	cumentation and coding instru	actions
34. Erroneous definition of bou	ndary conditions in software	products are usually classified as
a) Faulty definition of requib) Coding errors	rements	
c) Non-compliance with dood) Logical design errors	cumentation and coding instru	actions
35. Omissions of a required sof	tware system state in software	e products are usually classified as
a) Faulty definition of requib) Coding errors	rements	
	cumentation and coding instru	actions
36. Omission of definitions con usually classified as	cerning reactions to illegal op	peration of the software system is
a) Faulty definition of requireb) Coding errors	rements	
	cumentation and coding instru	actions
37. According to IEEE, a softw	vare system product comprises	s
a) 2		
b) 3 c) 4		
d) 5		
38. According to IEEE, which	of the following is not a softw	vare system component?
a) Programs that activate theb) The quality of the procedec) Operating systemd) Documentation data	e computer to perform the requares	uired applications

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39. Which of the followinga) Inter-process inspectb) Maintenancec) Testingd) Quality Planning	is NOT an appraisal in SQA?	
a) Black box testingb) Grey box testingc) White box testingd) Both a) and b)	is considered as component testin	g?
		False' questions (41-50) deducts two ce, carefully selects the option that best
	rance incorporates all software dev to coding until release.	relopment processes starting from
42. Software Quality Assursatisfaction.a) Trueb) False	rance is a kind of client satisfaction	n, end user satisfaction or customer
	s ensuring the correctness of the re hout any bug and according to exp	
44. Software Quality Assura) Trueb) False	ance consists of the auditing and r	eporting functions of management.
45. In Software Quality Asa) Trueb) False	surance, quality is not a long-term	strategy.

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	nentation that allows efficient coop nbers mainly comprises the require	peration and coordination among ements report, design reports, progra	ım
a) True			
b) False			
	interested in software errors and fa n, however, software users are wor	aults, their elimination, and the ways ried about software failures.	to
a) Trueb) False			
48. In many other cases, err	oneous code lines will not affect th	he functionality of the software as a	
a) Trueb) False			
49. Software Quality Assur	ance is used to reduce cost and imp	prove the product time to the market	
a) Trueb) False			
	vare quality assurance is due to soft product development and product	tware product complexity, invisibilition process	ty
a) Trueb) False			

