BACHELOR OF COMPUTER APPLICATIONS

(SOFTWARE ENGINEERING)

Paper No.:BCA-404

Full Marks: 70

(OBJECTIVE)

1.	Tio	ck [/] the correct answer:	(1 X 70=70)
	1)	Which is NOT a software characteristic? (i) Software does not wear out (ii) Software is flexible (iii)Software is always correct (iv)none of the above	
	2)	Milestones are use to (i) know the cost of the project (ii) know the status of the project (iii)know user expectations (iv)none of the above	
	3)	Effort is measured in terms of (i) Person-months (ii) Persons (iii)Kilo watt (iv)none of the above	
	4)	During software development, which factor is most crucial? (i) People (ii) Product (iii)Process (iv)none of the above	
	5)	Software engineering approach is used to achieve (i) Error free software (ii) Reusable software (iii)Quality software product (iv)none of the above	
	6)	Which is not software life cycle model? (i) Spiral model	

Government Zirtiri Residential Science College (ii) Prototyping model (iii)Capability maturity model

	(iv)none of the above
7)	Build and fix model has (i) 1 phase (ii) 2 phases (iii)3 phases (iv)none of the above
8)	If user participation is available, which model is to be chosen? (i) RAD model (ii) Iterative enhancement model (iii) Waterfall model (iv) none of the above
9)	Statistically, the maximum percentage of errors belong to the following phase of SDLC (i) Coding (ii) Testing (iii)Design and maintenance (iv)none of the above
10	(i) an old-fashioned model that is rarely used any more (ii) a reasonable approach, when requirements are well-defined (iii) a good approach, when a working program is required quickly (iv)none of the above
11) Requirement elicitation means (i) Capturing of requirements (ii) Understanding of requirements (iii) Gathering of requirements (iv) all of the above
12	(i) How to design the system? (ii) Costing and scheduling of a system (iii) "What" of a system? (iv) none of the above
13	(i) end user understanding and approval (ii) program logic (iii)planning and data flow organization (iv)none of the above
14	depends upon each requirement in the SRS having a unique name or reference number

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(i) Backward traceability (ii) Forward traceability (iii)Consistency (iv) none of the shows
(iv)none of the above 15) In the prototype is built with the idea that it will eventually be converted in
the final system. (i) Throw-away prototyping (ii) Evolutionary prototyping (iii)Prototyping model (iv)none of the above
16) are used widely for modeling the requirements (i) Data dictionaries (ii) DFD (iii)ER diagrams (iv)none of the above
17) Requirement specification which describes hardware and software it is (i) SRS (ii) Requirements specification (iii)System requirements specification (iv)none of the above
18) is an attribute that uniquely identifies each instance of an entity type. (i) Identifier (ii) Candidate key (iii)Cardinality (iv)none of the above
19) Which is NOT a characteristic of a good SRS? (i) Reliable (ii) Verifiable (iii)Consistent (iv)none of the above
20) The DFD depicts (i) flow of data (ii) flow of control (iii)both (i) and (ii) (iv)none of the above
21) Temporal cohesion means (i) Cohesion between local variables (ii) Cohesion between temporary variables (iii) Cohesion with respect to time (iv) none of the above

Government Zirtiri Residential Science College 22) A form of coupling in which a module has a dependency to other module, external to the software being developed is _____ (i) Control coupling (ii) External coupling (iii)Stamp coupling (iv)none of the above 23) The purpose of _____ phase is to produce a solution to a problem given in SRS document. (i) Testing (ii) Design (iii)Implementation (iv)none of the above 24) A good software design will have _____ coupling (i) low (ii) high (iii)medium (iv)none of the above 25) _____ design is an approach to software design where the design is decomposed into a set of interacting units where each unit has a clearly defined function. (i) Bottom-up (ii) Top-down (iii)Function oriented (iv)none of the above 26) is a representation of a software system that is used as a medium for communicating software design information (i) SRS (ii) SDD (iii)COCOMO (iv)none of the above 27) In OOD, _____ is the elimination of the irrelevant and the amplification of the essentials. (i) Polymorphism (ii) Abstraction (iii)Encapsulation (iv)none of the above

28) The design tells the customer exactly what the system will do

(i) Conceptual(ii) Technical(iii)Intermediate(iv)none of the above

Government Zirtiri Residential Science College 29) Cohesion is a measure of the degree to which the elements of a module are related (i) technically (ii) systematically (iii)functionally (iv)none of the above 30) Software design with _____ coupling will have more errors (i) high (ii) low (iii)medium (iv)none of the above 31) Software consists of _____ (i) set of programs (ii) set of instructions + operating procedures (iii)program + documentation + operating procedures (iv)program + hardware manuals 32) In a usable product is released at the end of each cycle, with each release providing additional functionality. (i) Iterative enhancement model (ii) Evolutionary development model (iii)RAD model (iv)Prototyping model 33) Which one is not a type of requirement? (i) known requirement (ii) unknown requirement (iii)undreamt requirement (iv)complex requirement 34) COCOMO was developed initially by _____ (i) B. W Bohem (ii) B. Beizer (iii) Alan Albrecht (iv)M. Halstead 35) The module in which instructions are related through flow of control is _____ (i) Functional cohesion (ii) Temporal cohesion

(i) number of components related to component A(ii) number of components dependent on component A

(iii)Logical cohesion (iv)Procedural cohesion

36) In the basic information flow model, 'FAN OUT' of a component A is defined

	i)number of components that are called by component A y)number of components that are pass by component A
(i) (ii) (iii	oftware reliability is defined with respect to size) speed i)quality v)time
(i) (ii) (iii	checking the product with respect to customer's expectations) checking the product with respect to specification i)checking the product with respect to constraints of the project v)all of the above
(i) (ii) (iii	uring validation: process is checked) the customer checks the product i)developer's performance is evaluated v)product is checked
(i) (ii) (iii	ne process of transforming a model into source code is Forward engineering Reverse engineering i)Re-engineering y)Restructuring
(i) (ii) (iii	he worst type of cohesion is cohesion coincidental) temporal i)logical y)none of the above
(i) (ii) (ii)	ne most desirable form of coupling is coupling common) content i)data v)none of the above
(i) (ii) (iii	ocess of generating analysis and design documents is called Re-engineering) Inverse engineering i)Software engineering v)Reverse engineering
44) Th	ne testing which involves only observation of the output for certain input values is testing. alpha beta

Government Zirtiri Residential Science College (iii)acceptance (iv)functional 45) ______ is the probability of a failure free operation of a program for a specified time in a specified environment (i) Software metrics (ii) Software reliability (iii)Software testing (iv)Software maintenance 46) A count of the amount of data input to, processed in, and output from software is called a (i) modularity (ii) data structure metric (iii)token count (iv)information flow metric 47) In ______testing, each subsystem is tested separately and then the full system is tested. (i) Unit testing (ii) Top down (iii)Bottom up (iv)none of the above 48) ______ is the activity that leads to 'fitness of purpose' (i) Quality Assurance (ii) Reliability (iii) Maintenance (iv)none of the above 49) Modular design of a system means (i) using subroutine libraries (ii) using models at its phase of system life cycle (iii) divide the whole system into a number of units, each of which is quite cohesive within itself and is not too dependent on others, and to design and develop the units separately (iv)delivering a complex system to the customer one piece at a time 50) _____ is language dependent. (i) LOC (ii) Function Count (iii)COCOMO

51) _____ describe the effectiveness and quality of the processes that produce the

(iv)SRS

software product.
(i) Product metrics
(ii) Process metrics
(iii)Project metrics
(iv)none of the above

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	model the degree of cohesion and coupling for a particular system component
	(i) Data structure metrics
	(ii) Information flow metrics
	(iii)Token count
	(iv)none of the above
	In Token count, the required to implement a program increases as the size of the
	program increases
	(i) time
	(ii) volume
	(iii)effort
	(iv)none of the above
54)	Software science measures are developed by
	(i) B. Littlewood
	(ii) T.J McCabe
	(iii)M.Halstead
	(iv)G. Rothermal
55)	Which one is the international standard for size measure?
,	(i) LOC
	(ii) Function count
	(iii)Program length
	(iv)none of the above
56)	Function point can be calculated by
	(i) UFP * CAF
	(ii) UFP * FAC
	(iii)UFP * cost
	(iv)UFP * Productivity
57)	is a hierarchy of software cost estimation model, which include basic,
	intermediate and detailed sub models
	(i) Function Count
	(ii) COCOMO
	(iii)Putnam Resource Allocation model
	(iv)none of the above
58)	is the process of examining a project and identifying areas of potential risk.
	(i) Risk assessment
	(ii) Risk Control
	(iii)Risk Monitoring
	(iv)none of the above
59)	is dependent on the resource requirements and development time
,	(i) Project scheduling
	(ii) Testing
	(iii)Maintenance
	(iv)none of the above

 60) is a problem that could cause some loss or threaten the success of the project, but which has not happened yet. (i) Cohesion (ii) Coupling (iii)Risk (iv)none of the above
61) The for a program is the time that is actually spent by a processor in executing the instructions of that program (i) Clock time (ii) Calendar time (iii) Execution time (iv) none of the above
 62) is a strategy for improving the software process, irrespective of the life cycle model. (i) Software Reliability Model (ii) Capability Maturity Model(CMM) (iii)Spiral Model (iv)none of the above
63) Reliability of software is usually estimated at (i) Testing phase (ii) Design phase (iii)Coding phase (iv)none of the above
64) Software does not break or wearout like hardware? What is your opinion? (i) True (ii) False (iii)Cannot say (iv)none of the above
65) Regression testing is primarily related to (i) Functional testing (ii) Maintenance testing (iii) Data flow testing (iv) none of the above
66) During the development phase, the following testing approach is NOT adopted (i) Unit testing (ii) Integration testing (iii) Acceptance testing (iv) none of the above
67) is the activity of locating and correcting errors (i) Testing

(ii) Debugging (iii)Maintenance	
(iv)none of the above	
68) System documentation may NOT have	
(i) SRS(ii) Acceptance Test plan	
(iii)Design document	
(iv)none of the above	
69) The process by which existing processes and methods are replaced by new techniques	is
(i) Reverse engineering	
(ii) Software configuration management	
(iii)Business process re-engineering	
(iv)none of the above	
70) Software maintenance may span for years, whereas development may be	
years	
(i) 20, 1-2	
(ii) 1-2, 20	
(iii)20, 10-20	
(iv)none of the above	

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Answer Key

1. iii 2. ii 3. i 4. i 5. iii 6. iii 7. ii 8. i 9. iv 10. ii 11. iii 12. iii 13. i 14. ii 15. ii 16. ii 17. iii 18. ii 19. i 20. i 21. iii 22. ii 23. ii 24. i

25. iii 26. ii 27. ii 28. i 29. iii 30. i 31. iii 32. i 33. iv 34. i 35. ii 36. iii 37. iv 38. ii

- 39. ii
- 40. i
- 41. i
- 42. iii
- 43. iv
- 44. iv
- 45. ii
- 46. ii
- 47. iii
- 48. i
- 49. iii
- 50. i
- 51. ii
- 52. ii
- 53. iii
- 54. iii
- 55. iv
- 56. i
- 57. ii
- 58. i
- 59. i
- 60. iii
- 61. iii
- 62. ii
- 63. i
- 64. i
- 65. ii
- 66. iii
- 67. ii
- 68. iv
- 69. iii
- 70. i