D/ 1016 (A)

M. Sc. (Fourth Sem.) (Main/ATKT)

Sem. Examination May-June: 2020

COMPUTER SCIENCE

Paper First

(Software Engineering)

	itware Engineering)	
Time : Three Hours]		[Maximum Marks : 100
Note: Attempt all questions as dire	cted.	·.
	Section A	1 each
	(Objective/MCQ)	
 Which two models doesn't allow Waterfall & RAD Prototyping & Spiral Prototyping & RAD Waterfall & Spiral 	defining requirements	early in the cycle?
2. Selection of a model is based ona) Requirementsb) Development team & Usersc) Project type and associated riskd) All of the mentioned		
3) Line of code(LOC) can be used	to normalize quality an	d/or productivity measure for
a. Extended function point metricsb. Function point metrics.c. Size oriented metrics.d. None of the above.		
4) When elements of module are granother and so on, it is called	rouped because the outp	out of one element serves as input to
a. Functional cohesionb. Sequential cohesionc. Communicational cohesiond. Procedural cohesion		
5) Which of the following technique	es is not a White box te	chnique?
a. Statement Testing and coverageb. Decision Testing and coveragec. Condition Coveraged. Boundary value analysis		

6. Purpose of process is to deliver s	oftware
a) in timeb) with acceptable quality	
c) that is cost efficient	
d) both in time & with acceptable q	uality
7. The user system requirements are	e the parts of which document?
a) SDD	
b) SRS	
c) DDD d) SRD	
d) SKD	
8. Architectural Design Metrics are	in nature.
a) Black Box	
b) White Box	
c) Gray Box	
d) Green Box	
•	
9) Grouping of all functionally rel	ated elements is known as
of ordering of all functionally for	ated elements is known as
a. Cohesion	
b. Coupling	
c. Both A & B	
d. None of the above	
10) FAST stands for	
a. Functional Application Specifica	tion Taghnique
b. Fast Application Specification To	•
-	*
c. Facilitated Application Specificat	ion rechnique
d. None of the above	•
11) CMM model in Software Engi	neering is a technique of .
	· <u></u>
a. Develop the software.	
b. Improve the software process.	
c. Improve the testing process.	
d. All of the above.	
12. Which one of the following is no	ot a phase of Prototyping Model?
a) Quick Design	
b) Coding c) Prototype Refinement	
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d) Engineer Product	
13) Alpha and Beta Testing are forms of	•
a. Acceptance testingb. Integration testingc. System Testingd. Unit testing	
14) The tools that support different stages of software development. a. CASE Tools	at life cycle are called
b. CAME tools c. CAQE tools d. CARE tools	
15) Which is the most important feature of spiral model?a. Quality managementb. Risk managementc. Performance managementd. Efficiency management	
16) Modifying the software to match changes in the ever changing	environment is called
a. Adaptive maintenanceb. Corrective maintenancec. Perfective maintenanced. Preventive maintenance	
17) IEEE 830-1993 is a IEEE recommended standard for	
a. Software Requirement Specificationb. Software designc. Testingd. Both (A) and (B)	
18) What does the physical connections between the elements of the	ne OO design represent?
a. Cohesion b. Coupling	

- c. Both A & B
- d. None of the above
- 19) Which Chart is a statistical technique to assess, monitor, and maintain the stability of a process?
- a. Control Chart
- b. Maintenance Chart
- c. Bar Charts
- d. None of these
- 20. Which is the Estimation Software size should be known?
- a. Time estimation
- b. Effort estimation
- c. Cost estimation
- d. Software size estimation

Section – B

2 each

(Very Short Answer Type Question)

- Q-1What is software engineering?
- Q2. What are various phases of SDLC?
- Q-3What is SRS
- Q-4What is modularization?
- Q-5Who is software project manager?
- Q-6What is cohesion?
- Q-7Define software Re-engineering.
- Q-8How can we derive the size of software product?
- Q-9 Write full form of COCOMO.
- Q-10What is Unit Testing

(Short Answer Type Question)

Give Answer in less than 75 words.

- Q1 How can you measure project execution?
- Q-2 What is Putnam resource allocation model.
- Q-3 What is logarithmic Poisson model
- Q-4 What is software testing.
- Q-5What is function oriented design
- Q-6 What do you mean by information flow metrics.
- Q-7 What is FAST
- Q-8 Give types of software maintenance?
- Q-9 What is Risk management
- Q-10 Write IEEE definition of Software engineering

Section D

6 each

(Long answer question)

- Q1.Explain software life cycle model in short.
- Q-2 Discuss cost estimation model.
- Q-3 Explain software reliability in detail
- Q-4 Explain functional testing.
- Q-5 Write short notes on
 - a) Software maintenance b) Classification of cohesiveness and coupling.
