721721	100	100	0.81	100	13.00
-		n	^	a	
D		10.00			-
_		•	•	•	•
11171 6	1		11.60		

(Pages: 2)

HUMBE

wad water the manage.

Name

Reg. No.....

Secretar projected and market well

Lin Water zie bervan wolach mie

FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2018 ing the relative by the confidence of

(CUCBCSS-UG)

Computer Science

BCS 5B 11—PRINCIPLES OF SOFTWARE ENGINEERING

Maximum: 80 Marks Time: Three Hours

Part A

	Each question carries 1 mark.	
1.	Which is not a requirements elicitation technique?	
	(a) Interviews (b) The use case approach.	
	(c) FAST. (d) Data flow diagram.	2000
2.	CASE tool is	9
	(a) Computer Aided software engineering.	
3/4	(b) Component Aided software engineering.	
	(c) Constructive Aided software engineering, and the second state of the second	1
ran	(d) Computer Analysis software engineering.	
3.	Outcome of requirement specification is:	
	(a) Design document. (b) Software requirement specification.	
	(c) Text document. (d) None of these.	
4	TITL is not a characteristic of good SRS?	V
	(a) Correct. (b) Complete.	
7 9	(c) Consistent. (d) Brief.	
5.	The relationship between data elements in a module is called	
6.	are used to quantify the attributes of software development process and environment	ıt
7.	A design notation used for representing function oriented design is	4
8.	Level 0 DFD is similar to ———	
9.	The primary characteristic of a good design is low cohesion and high coupling. (True or False)	
10.	the and linearly independent noth (True or False)	
	$(10 \times 1 = 10 \text{ mark})$	cs

Part B

Answer all questions.

Each question carries 2 marks.

- 11. Define software Engineering.
- 12. Differentiate between product metrics and process metrics.
- 13. What are decision tables?
- 14. What is the difference between a flowchart and a structure chart?
- 15. What is the primary goal of coding phase?

 $(5 \times 2 = 10 \text{ marks})$

Part C

Answer any **five** questions. Each question carries 4 marks.

- 16. Explain the three entities that repeatedly occur in software engineering.
- 17. Explain the limitations of waterfall model.
- 18. Explain the different phases of project management process.
- 19. What is SRS? Explain the need for SRS.
- 20. What is prototyping in problem analysis? What are the various approaches in prototyping?
- 21. What is functional modeling in OOD?
- 22. What are the different types of modules used in a structure chart?
- 23. What is test plan? What are its components?

 $(5 \times 4 = 20 \text{ marks})$

Part D

Answer any **five** questions. Each question carries 8 marks.

- 24. Explain the various phases in the software development process.
- 25. With the help of a diagram explain the spiral model.
- 26. Explain the structured design methodology for developing system designs.
- 27. What is functional testing? Explain the various techniques used to select test cases.
- 28. Explain the needs for software requirement specification.
- 29. How a detailed design is different from system design? Explain.
- 30. What is the fundamental objective of a process? Explain the important characteristics of a software process.
- 31. Write notes on:
 - (a) Unified Modeling language.
 - (b) Critical Design review.
 - (c) Consistency checks.