30. a. Briefly explain in detail about various requirement validation techniques. b. Write short notes on the following document Structure of document (i) (ii) Development of user manual 31. a. Briefly explain in detail about components of integrated quality approach as a term of business drives of quality. (OR) b. Briefly explain in detail about requirement traceability models. 32. a. Write shot notes on the following DOORS requirements management tool History and version control (ii) Attributes and views (OR) b. Briefly explain in detail about the DOORS architecture with a neat diagram.

Reg. No.	T-T-	 			
2008-2100					

B.Tech. DEGREE EXAMINATION, NOVEMBER 2018

1st to 6th Semester

15SE211 - REQUIREMENTS ENGINEERING

(For the candidates admitted during the academic year 2015 - 2016 to 2017-2018)

	-4	
134	me.	

- Part A should be answered in OMR sheet within first 45 minutes and OMR sheet should be handed over to hall invigilator at the end of 45th minute.
- ii) Part B and Part C should be answered in answer booklet.

Max. Marks: 100

				IVION: IVIOINO: 100
		med Si		
		PART – A (20 ×		,
		Answer ALI	L Que	estions
1.		is the process of determining	T 11561	expectations for a new or modified product.
	-	Requirement engineering		Software process
		Data gathering		Software testing
	(0)	Data gamering	(D)	Software testing
2.	In re	equirement engineering is the	oracti	ce of collecting the requirements of a system
	fron	users, customers and stakeholders.		or or concerning the requirements of a system
		Requirements negotiation	(B)	Requirement gathering
		Requirement verification		Requirement validation
	(0)	Requirement verification	(D)	Requirement vandation
3.	Whi	ch one of the following is not a step of	reaui	rement engineering?
		Elicitation		Analysis
	` ′	Design		Documentation
	(0)		(D)	Documentation
4.	Тур	es of requirement does not include		
	(A)	Functional requirements	(B)	Non-functional requirements
		Domain requirements		Testing requirements
•	` ,	1	(-)	
5.		is a graphical representation of	of the	flow of data through an information system,
	mod	elling its process aspects.		
	(A)	Data flow diagram	(B)	E-R diagram
	(C)	View points		SADT
	` '	-12 v 02 1	(-)	The second second second
6.	_	refers to a one-on one conver	satio	n with one person acting in the role of the
	inter	viewer and the other in the role of the i	nterv	iewee.
v		Questionnaire		Interview
	(C)	Walkthrough		Brain storming
	(-)		(2)	Diam Brothing
7.		is a group creativity technique by	which	ch efforts are made to find a conclusion for a
	spec	ific problem by gathering a list of ideas	cont	ributed by its members.
	(A)	Analysis		Review
		Brainstorming		Audit
	(~)		(1)	114411

8.	role an	is a list of actions or event sted a system to achieve a goal.	ps, t	ypically defining the interactions between a			
	(A) D	•	(B)	Worst case			
	` '	est case	(D)	Use case			
	` /						
9.		created for any specific project v	vill h	neavily depends on the type of project, the			
	needs,	preferences of your business and	1 tec	hnical stakeholders and business analysis			
	standa						
	(A) S	RS	(B)	Requirement documents			
	` '	Design documents	(D)	Test documents			
10			A00A	of a product built to test a concept or process			
10.		ct as a thing to be replicated or learne					
		rototype		RAD			
	` '	• •		Reuse			
	(C) (Quick and fix	(D)	Reuse			
11.		is a technical communication	docu	ment intended to give assistance to people			
11.	uging	a particular system.	ųocu.	ment intended to give dissistance to people			
		ndexes	(B)	Book			
	` '		` /	Test report			
	(C)	Jser manual	(D)	1 est report			
12.		is a final check of the documer	nt as a	a clear statement of the stakeholder need.			
12.	(A) A	Analyzing	(B)	Checking			
		Verification		Validation			
	(0)		(-)				
13.		is imperative for our continued existe	ence	in organization.			
		Customer satisfaction		Quality			
		Feedback	(D)	Money			
	` '						
14.	The c	omponents of an integrated quality ap					
	(A) 1	Project	(B)	Tasks			
	(C) I	Data	(D)	Management, customers, projects and tasks			
15.		n of the following is not a requiremen	it ma	nagement activity?			
	` '			Investigation			
	(<u>C</u>)	Design	(D)	Construction and test			
1.0		antinos all maginomanta pro	***	d by the client or development team and their			
16,							
		bility in a single document delivered					
	(A)	Quality function deployment	(D)	CHECKLIST			
	(C) .	Requirement traceability matrix	(D)) SRS			
17.		is a multi-platform, enterprise	wide	e requirements management tool designed to			
1/.	contra	re, link, trace and analyze wide range	ofn	roject information			
	-						
	(C)	C++	(1)) DOORS			
18	. The i	nformation in a DOORS database is	store	d in form of			
10		Modules) Data sets			
	. ,	CSV files	• •) Text files			
	(0)						

(An object identifier in DOORS is made up (A) Suffix (C) Numbers	(B)	Prefix and absolute number Zero's			
	provides a means to annotate m (A) Rows (C) Attributes		es and objects with related information Columns Tuples			
	PART – B (5 × 4 Answer ANY F)					
21.	Are requirements important? Highlight the	diffi	culties in requirement engineering.			
22.	Discuss about the requirement representation	n: V	iew point.			
23.	Explain the concept of prototyping and its t	ypes				
24.	24. Discuss about the elicitation process questionnaires and its various ways of framing questions.					
25.	25. What is meant by elicitation notes, specify its vision and scope.					
26.	26. Explain the concept of integrated quality approach.					
27.	27. Write a short notes about objects in DOORS requirement management tool.					
$PART - C (5 \times 12 = 60 \text{ Marks})$ Answer ALL Questions						
28.a.i.	Outline the various sources of requirement	s in o	letail.			
ii.	Relate the requirement engineering life engineering life cycle.	cycl	e with respect to the activities of software			
	(0					
b.	Draw all possible representation of requestrements for the following (i) Data flow diagram (ii) View points	irem	ent diagram to implement smart ration card			
29. a.	Build a use case scenario to implement air with use case template description. Set the from stakeholders.	port sim	check in an security screening business model ple questionnaires to retrieve the requirements			

(OR)
b. Discuss in detail about the following requirement elicitation techniques with its pros and

cons.

(ii) Prototype

14NA1-6/15SE211