30. a.	Explain the following requirement (i) Inspection (ii) Review	nt validation technique				Reg. No.		
	(iii) Walk through			•				
		(OR)		:		B.Tech. DEGREE EX Third / Fo	AMINATION, MAY 20 ourth Semester	017
b.i.	State the necessary information pr	resent in user manual.			(For the	15SE211 – REQUIR	EMENTS ENGINEERIN	1G
ii.	Prototyping assist in requirement	validation. Justify.					the academic year 2015 – 2	
31. a.	Explain the PDCA cycle with a ne	eat sketch.				gilator at the end of 45 th mi rt - C should be answered		d OMR sheet should be handed
b.	Discuss the requirement traceabili	(OR) ty models:			Time: Three Hours			Max. Marks: 100
22 -	Traceability matrix, list and tree	The second of th				PART – A (20	$0 \times 1 = 20 \text{ Marks}$	
32. a.	Write short notes on the following (i) History and version cont	trol		and a balance	1. The fundamenta		LL Questions ents engineering do not in	cluda
	(ii) Traceability report	(OD)		A common of the state of the st	(A) Elicitation(C) Specification		(B) Optimization (D) Validation	Stude
b.	Explain the architectural of DOOR	(OR) S with a neat sketch. * * * * *		The second section of the section of th	() Himme digoti	ents specification for E- thm should be used? tructures should be used	commerce system needs (B) How can the system? (C) What should be system?	to provide answer to tem be implemented? the response time of the
					3. Requirement elic	itation means		
• • • • • • • • • • • • • • • • • • • •					(A) Gathering o(C) Understandi	f requirements ng of requirements	(B) Capturing of requ(D) Validating requir	irements ements
					4. Which one is not	a requirement elicitation	technique?	
					(A) Interviews(C) Data flow di		(B) Use case approac(D) FODA	h
					5. Which of the follo	owing is not a functional	requirement?	
					(A) Efficiency(C) Reliability		(B) Product features (D) Stability	
		化化物 化自动电影 经收益			6. technique	which againt in the 1		
· /.					(A) Prototyping	which assist in three pr	nase of requirement engin (B) Use case	eering life cycle
					(C) Dataflow dia	gram	(D) Interview	
					redamenter in 20	ine way.	who do not use the s	ystem but influence the
					(A) Inter actor vi(C) Indirect view	ew points points	(B) Domain view point (D) Business view point	its nts
					8. The individual or of	rognization who would	a product to be developed	
•			•		(A) User	rganization who wants	(R) Domain arrant	is
					(C) Buyer		(B) Domain expert (D) Client	

٥.	Is the	origin of the requiremen	it clearly stated	l is ve	rified by	
7.	13 UIC	Jamifiability	,	(B) '	Fraceability	
		Verifiability			Comprehensibility	•
	(C) .	Adaptability		(n) '	Complehensionity	
					.~	
0:	Whic	n is not relevant to the qu	uality of softw	are re	quirement specification?	
	(4)	Fraceable		(B)	Comprehend	
					Complete	
	(C)	Concise		(υ)	Complete	
					1 and bot	rroon grigtem
11.		defines the function	nal relationsh	ip bet	ween system elements and bet	ween system
	eleme	ents and environment.				
		Product requirement		(B)	Process requirement	**
	(A)	Product requirement			Interface requirement	
	(C)	Logistic requirement	· •	(ν)	micrace requirement	
						14
12.	Users	s of requirement docume	nts are	٠.		-
		Customers		(B)	Managers	•
					System engineers	
	(C)	End users		(D)	Dystem on Bureers	
13.	Whic	h is not the source of ch	ange?			
		Organization strategy		(B)	Budget	
				(D)	Customer needs	
	(C)	Market condition		(4)	· ·	
			0.4	:•.:.		
	*A		aaaaa at tha #4		ment is	
14.	An u	rganized examination pr	ocess of the re	quire	mone is	
14.	(A)	rganized examination pr Review	ocess of the re	(B)	Desk-check	
14.	(A)	Review	ocess of the re	(B)	Desk-check Walk-through	
14.	(A)	Review Inspection		(B)	Walk-through	
\$+.	(A) (C)	Review Inspection		(B)	Walk-through	validation.
\$+.	(A) (C)	Review Inspectionshould comprise		(B) (D) so tha	Desk-check Walk-through t the reviewer can use it during	validation.
\$+.	(A) (C)	Review Inspectionshould comprise		(B) (D) so tha (B)	Desk-check Walk-through t the reviewer can use it during Questionnaire	y validation.
\$+.	(A) (C) A_(A)	Review Inspection should comprise Check list		(B) (D) so tha (B)	Desk-check Walk-through t the reviewer can use it during	y validation.
\$+.	(A) (C) A_(A)	Review Inspectionshould comprise		(B) (D) so tha (B)	Desk-check Walk-through t the reviewer can use it during Questionnaire	g validation.
15.	(A) (C) A_(A) (C)	Review Inspection should comprise Check list Test case	few question	(B) (D) so tha (B)	Desk-check Walk-through t the reviewer can use it during Questionnaire	g validation.
15.	(A) (C) A_(A) (C) Qua	Review Inspection should comprise Check list Test case lity improvement technic	few question	(B) (D) so that (B) (D)	Desk-check Walk-through t the reviewer can use it during Questionnaire Models	g validation.
15.	(A) (C) A_(A) (C) Qua (A)	Review Inspection should comprise Check list Test case lity improvement technic Brainstorming	few question	(B) (D) so tha (B) (D)	Desk-check Walk-through t the reviewer can use it during Questionnaire Models Multivoting	y validation.
15.	(A) (C) A_(A) (C) Qua (A)	Review Inspection should comprise Check list Test case lity improvement technic Brainstorming	few question	(B) (D) so tha (B) (D)	Desk-check Walk-through t the reviewer can use it during Questionnaire Models	y validation.
15.	(A) (C) A_(A) (C) Qua (A)	Review Inspection should comprise Check list Test case lity improvement technic	few question	(B) (D) so tha (B) (D)	Desk-check Walk-through t the reviewer can use it during Questionnaire Models Multivoting	g validation.
15. 16.	(A) (C) A_(A) (C) Qua (A) (C)	Review Inspection should comprise Check list Test case lity improvement technic Brainstorming Inspection	few question	(B) (D) so tha (B) (D)	Desk-check Walk-through t the reviewer can use it during Questionnaire Models Multivoting	y validation.
15. 16.	(A) (C) A_(A) (C) Qua (A) (C)	Review Inspection should comprise Check list Test case lity improvement technic Brainstorming Inspection ORS database is stored in	few question	(B) (D) so that (B) (D) (B) (D)	Desk-check Walk-through t the reviewer can use it during Questionnaire Models Multivoting Check list	g validation.
15. 16.	(A) (C) A_(A) (C) Qua (A) (C)	should comprise Should comprise Check list Test case Ity improvement technic Brainstorming Inspection ORS database is stored in Object	few question	(B) (D) so that (B) (D) (B) (D)	Desk-check Walk-through t the reviewer can use it during Questionnaire Models Multivoting Check list Modulus	g validation.
15. 16.	(A) (C) A_(A) (C) Qua (A) (C)	Review Inspection should comprise Check list Test case lity improvement technic Brainstorming Inspection ORS database is stored in	few question	(B) (D) so that (B) (D) (B) (D)	Desk-check Walk-through t the reviewer can use it during Questionnaire Models Multivoting Check list	g validation.
15. 16.	(A) (C) A_(A) (C) Qua (A) (C) DO((A)	should comprise Should comprise Check list Test case Ity improvement technic Brainstorming Inspection ORS database is stored in Object	few question	(B) (D) so that (B) (D) (B) (D)	Desk-check Walk-through t the reviewer can use it during Questionnaire Models Multivoting Check list Modulus	g validation.
15. 16.	(A) (C) A_(A) (C) Qua (A) (C) DO((A) (C)	Review Inspection should comprise Check list Test case lity improvement technic Brainstorming Inspection ORS database is stored in Object Files	few question ques are the form of	(B) (D) so that (B) (D) (B) (D)	Desk-check Walk-through t the reviewer can use it during Questionnaire Models Multivoting Check list Modulus	g validation.
15. 16.	(A) (C) A_(A) (C) Qua (A) (C) DO((A) (C)	should comprise Should comprise Check list Test case Ity improvement technic Brainstorming Inspection ORS database is stored in Object Files ORS modulus are contain	few question ques are the form of	(B) (D) so that (B) (D) (B) (D)	Desk-check Walk-through t the reviewer can use it during Questionnaire Models Multivoting Check list Modulus Folders	validation.
15. 16.	(A) (C) A_(A) (C) Qua (A) (C) DO((A) (C)	Review Inspection should comprise Check list Test case lity improvement technic Brainstorming Inspection ORS database is stored in Object Files ORS modulus are contai Objects	few question ques are the form of	(B) (D) so that (B) (D) (B) (D) (B) (D)	Desk-check Walk-through t the reviewer can use it during Questionnaire Models Multivoting Check list Modulus Folders Methods	validation.
15. 16.	(A) (C) A_(A) (C) Qua (A) (C) DO((A) (C)	should comprise Should comprise Check list Test case Ity improvement technic Brainstorming Inspection ORS database is stored in Object Files ORS modulus are contain	few question ques are the form of	(B) (D) so that (B) (D) (B) (D)	Desk-check Walk-through It the reviewer can use it during Questionnaire Models Multivoting Check list Modulus Folders Methods	s validation.
15. 16.	(A) (C) A_(A) (C) Qua (A) (C) DO((A) (C)	Review Inspection should comprise Check list Test case lity improvement technic Brainstorming Inspection ORS database is stored in Object Files ORS modulus are contai Objects	few question ques are the form of	(B) (D) so that (B) (D) (B) (D) (B) (D)	Desk-check Walk-through t the reviewer can use it during Questionnaire Models Multivoting Check list Modulus Folders Methods	g validation.
15. 16.	(A) (C) A_(A) (C) Qua (A) (C) DO((A) (C) (C)	should comprise Should comprise Check list Test case Ity improvement technic Brainstorming Inspection ORS database is stored in Object Files ORS modulus are contai Objects Records	few question ques are the form of	(B) (D) so that (B) (D) (B) (D) (B) (D)	Desk-check Walk-through t the reviewer can use it during Questionnaire Models Multivoting Check list Modulus Folders Methods	g validation.
15. 16.	(A) (C) A_(A) (C) Qua (A) (C) DO (A) (C) . DO (A) (C)	should comprise Should comprise Check list Test case lity improvement technic Brainstorming Inspection ORS database is stored in Object Files ORS modulus are contain Objects Records	few question ques are the form of ners for	(B) (D) so that (B) (D) (B) (D) (B) (D)	Desk-check Walk-through t the reviewer can use it during Questionnaire Models Multivoting Check list Modulus Folders Methods Data sets	
15. 16. 17.	(A) (C) A_(A) (C) Qua (A) (C) DO((A) (C) . DO((A) (C)	should comprise Check list Test case lity improvement technic Brainstorming Inspection ORS database is stored in Object Files ORS modulus are contai Objects Records object identifier in DOC Section number, object	few question ques are the form of ores for ores for ores for	(B) (D) so that (B) (D) (B) (D) (B) (D)	Desk-check Walk-through It the reviewer can use it during Questionnaire Models Multivoting Check list Modulus Folders Methods Data sets A prefix, an absolute number	
15. 16. 17.	(A) (C) A_(A) (C) Qua (A) (C) DO((A) (C) . DO((A) (C)	should comprise Should comprise Check list Test case lity improvement technic Brainstorming Inspection ORS database is stored in Object Files ORS modulus are contain Objects Records	few question ques are the form of ores for ores for ores for	(B) (D) so that (B) (D) (B) (D) (B) (D)	Desk-check Walk-through t the reviewer can use it during Questionnaire Models Multivoting Check list Modulus Folders Methods Data sets	
15. 16. 17.	(A) (C) A_(A) (C) Qua (A) (C) DO((A) (C) . DO((A) (C)	should comprise Check list Test case lity improvement technic Brainstorming Inspection ORS database is stored in Object Files ORS modulus are contai Objects Records object identifier in DOC Section number, object Section number, prefix	few question ques are the form of ores for ores for theading	(B) (D) so that (B) (D) (B) (D) (B) (D) (B) (D)	Desk-check Walk-through It the reviewer can use it during Questionnaire Models Multivoting Check list Modulus Folders Methods Data sets A prefix, an absolute number Absolute number, object ID	
15. 16. 17.	(A) (C) A_(A) (C) Qua (A) (C) DO((A) (C) . DO((A) (C) . The (A) (C)	should comprise Check list Test case lity improvement technic Brainstorming Inspection ORS database is stored in Object Files ORS modulus are contai Objects Records object identifier in DOC Section number, object Section number, prefix	few question ques are the form of ores for ores for theading	(B) (D) so that (B) (D) (B) (D) (B) (D) (B) (D)	Desk-check Walk-through It the reviewer can use it during Questionnaire Models Multivoting Check list Modulus Folders Methods Data sets A prefix, an absolute number Absolute number, object ID	
15. 16. 17.	(A) (C) A_(A) (C) Qua (A) (C) DO (A) (C) The (A) (C)	should comprise Check list Test case lity improvement technic Brainstorming Inspection ORS database is stored in Object Files ORS modulus are contai Objects Records object identifier in DOC Section number, object Section number, prefix indicates the uns	few question ques are the form of ores for ores for theading	(B) (D) so that (B) (D) (B) (D) (B) (D) (B) (D) (B) (D)	Desk-check Walk-through It the reviewer can use it during Questionnaire Models Multivoting Check list Modulus Folders Methods Data sets A prefix, an absolute number Absolute number, object ID in the current session in DOOI	
15. 16. 17.	(A) (C) A_(A) (C) Qua (A) (C) (A) (C) (A) (C) The (A) (C) (A) (C)	should comprise Check list Test case lity improvement technic Brainstorming Inspection ORS database is stored in Object Files ORS modulus are contain Objects Records object identifier in DOC Section number, object Section number, prefix indicates the unsured of the contained of	few question ques are the form of ores for ores for theading	(B) (D) so that (B) (D) (B) (D) (B) (D) (B) (D) f (B) (D) made (B)	Desk-check Walk-through It the reviewer can use it during Questionnaire Models Multivoting Check list Modulus Folders Methods Data sets A prefix, an absolute number Absolute number, object ID in the current session in DOOI Blue	
15. 16. 17.	(A) (C) A_(A) (C) Qua (A) (C) (A) (C) (A) (C) The (A) (C) (A) (C)	should comprise Check list Test case lity improvement technic Brainstorming Inspection ORS database is stored in Object Files ORS modulus are contai Objects Records object identifier in DOC Section number, object Section number, prefix indicates the uns	few question ques are the form of ores for ores for theading	(B) (D) so that (B) (D) (B) (D) (B) (D) (B) (D) f (B) (D) made (B)	Desk-check Walk-through It the reviewer can use it during Questionnaire Models Multivoting Check list Modulus Folders Methods Data sets A prefix, an absolute number Absolute number, object ID in the current session in DOOI	

PART – B ($5 \times 4 = 20$ Marks) Answer ANY FIVE Questions

- 21. Comment on the following requirements. Are they complete, clear and verifiable? If not, reformulate them
 - (i) The database shall store ten years of records
 - (ii) The processing time of incoming request should be a minimal one
- 22. Non functional requirements are measurable. Justify. Give three functional requirement for banking application.
- 23. List the various components associated with requirement representation technique SADT.
- 24. Write a short note on feature oriented domain analysis.
- 25. Write a note requirement validation.
- 26. What is the necessity for requirement traceability? Give its importance.
- 27. Write a note on baselining and view in doors.

PART – C $(5 \times 12 = 60 \text{ Marks})$ Answer ALL Questions

- 28. a. Draw the requirement representation diagram to implement smart ration card for the following
 - (i) Data flow diagram
 - (ii) View points
 - (iii) Use case

(OR)

- b.i. Relate the requirement engineering life cycle with respect to the activities of SDLC.
- ii. Outline the various sources of requirements.
- 29.a.i. Construct a simple questionnaires to retrieve the requirement for a simple mail server.

 (8 Marks)
 - ii. Comment on the following stakeholders with respect to requirement engineering: (4 Marks)
 - (i) Market research specialist
 - (ii) Domain expert

(OK)

- b.i. Ethonography and social analysis is kind of elicitation technique. Justify.
- ii. Write a note on types of interviews to collect requirements.