COURSE CODE: CSE320 COURSE TITLE: SOFTWARE ENGINEERING

Max. Marks: 70

Time Allowed: 3 hrs Read the following instructions carefully before attempting the question paper,

Read the following instructions and the OMR Sheet with the Paper code mentioned on the question paper and shours.

1. Match the Paper Code shaded on the OMR Sheet with the Paper code mentioned on the question paper and shours.

that both are the same. 2. This question paper is divided into two parts A and B.

11. The

A) Shortest

3. Part A contains 30 questions of 1 mark each, 0.25 marks will be deducted for each wrong snawer.

4. Part B contains 5 questions of 10 marks each. Attempt any 4 questions out of these 5 questions. In case all the 5

questions are attempted then only the first four attempted question will be evaluated.

5. Attempt all the questions in serial order. 6. Do not write or mark anything on the question paper except your registration no. on the designated space.

7. After completion of first 90 minutes, the OMR sheet will be taken by the invigilator.

8. Submit the question paper and the rough sheet(s) along with the answer sheet to the invigilator before leaving the examination hall. Part- A Q1. 1. Debugging is not a part of Defect Analysis B. Testing C. Defect Resolution D. Validation of Correctness L3 is NOT a type of Control Structure Testing Basis Path Testing B. Equivalence Analysis C. Loop Testing D. Conditional Testing L3 **CO4** 3. The testing technique that requires devising test cases to demonstrate that each program function is operational is Black-box testing B. Glass-box testing C. Grey-box testing D. D. White-box testing L3CO4 4. The best reason for using Independent software test teams is that A. software developers do not need to do any testing B. strangers will test the software mercilessly C. testers do not get involved with the project until testing begins D. the conflicts of interest between developers and testers is reduced L3 5. Smoke testing might best be described as CO4 A. bulletproofing shrink-wrapped software B. rolling integration testing C testing that hides implementation errors D. unit testing for small programs 6. The Test Cases Derived from use cases L3 CO4 A. Are most useful in uncovering defects in the process flows during real-world use of the system B. Are most useful in uncovering defects in the process flows during the testing use of the system C. Are most useful in covering the defects in the process flows during real-world use of the system D. Are most useful in covering the defects at the Integration Level 7. What can static analysis NOT find? A) the use of a variable before it has been defined L3 CO4 C) memory leaks B) unreachable ("dead") code D) array bound violations E. Which Test Document describes the Exit Criteria of Testing? L3 CO4 B) Test Summary Report C) Test Plan D) Defect Report 9. Selemium Variables are stored in StoredVars B. Stored Variables 10. Which component is not a Part of Selenium Suite C. Variable Stores D. None of the Above L3CO4 B. Selenium Web

C. Selenium RC D., Selenium Grid

D) Longest

path in the Network Diagram is critical path

C) Curved

L3 CO4

L3 CO5

Page 1 of 4

	Registratio	no ab crit	ical activity ha	s standard	de vinito	35 25 35 5500
12. The PERT Network has nine active the standard deviation of Critical	tivities on the c	ritical path. Each eri	1000	1.3	CO5	
12. The PERT Network has this as is the standard deviation of Critical	Path.	D) 27		ALC:		
is the standard deviation of extension of ex	C 81	D) 21		vely, Varia	nce of t	he activity
is the standard deviation of Critical B) 9 13. Pessimistic and optimistic con	e a store of	an activity is 10 and	4 days respect			
13 Pessimistic and optimistic con	ipletion time of	all activity		1.3	CO ₂	
Will DC	C.6	D. 1				
	C.0		COC or FP?			
	to predict the	effort as a function of	LOCOLLA			
A. 18 · B. 12	D. Both COCC	OMO and FP-based es	stimation		1.3	CO5
A. COCOMO	B. Both Coes	sed estimation				
C. FP-based estimation						
18. Resource requirement in project be A. 40 to 55% B. 55 to 70°	of software development on is common to does NOT: a project team in ver, recently the he authority to rect? Stakeholders ecomes constant C. 70 to	B. Identify the part D. Calculate the dunember. Both have in the part by have disagreed on make this decision. V. C. The proof the while the project is \$0% D.	icularly importantion of the votensive technithe next step. Who has the audiect team.	vhole projetical backgrato take for athority to continuous D. Investorogress status	ound fo the proj decide w stors L3 age. CO5	vhich 3 COS
19. To construct a high-quality, custom	home within t	five months at costs	not to exceed	\$150,000"	is best	classified
A deliverable B. A milestone	C. A Lin		. An Objectiv	e	L3	CO5
D. Which of the following would be co	onsidered a dire	act project and				
Labor B. Materials C. I	Equipment	D A B and Come				
		D. A, B, and C are a	il considered	direct costs	1.3	CO5
CMMI was developed to combine i	nultiple ;	nto one feet				
Bootstrap D. All of the	maturity mode mentioned abo	nto one framework. ls				
The CMM Integration is a model th	at has			15.00	-	
and the little and and interestion		A CONTROL OF THE PARTY OF THE P		L5 CO	0	
Actions and tasks	D. Integra	ited several disciplin	ies			
	one (of the mentioned abo	ve			
low can we trace the quality of soft	ware?			L5 CO6		
Using quality control activities Using validation		Wetam .		13 000	,	
- Osnig varidation		system structure		24.		
uality of design includ	- Tonic o	f the mentioned abo	ve			
uality of design includes the degree	to which the	design		L5 CO6		
Design and structuring			specified in	the require		
7	D. None o	f the mentioned abo	specified in	require	ments r	nodel.
Software engineering 'Quality Co		monitioned abo	4622			
Software engineering actions to	entrol' are the r	neasures of			L5	CO6
Models are reviewed to ensure t	hat the	ork product meet	The state of the s			
Software engineering, 'Quality Co Software engineering actions to Models are reviewed to ensure to Set of testing phases to uncover All of the mentioned above	errors de	mplete and consist	quality goals			
the mentioned above	ois, data ma	inipulation, and inte	nt .			
		, and title	race commun	nication		
				- Horier		

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26. PSP M A. 2	odel has B. 3	C. 4 / E	ities). 5	L5	CO6
27. The per A. 93	centage yield in Six 5	Sigma is C. 99.977	D. 99.99966	L5 CO6	
28. The fire A. ISO 1305	st standard published 3:2009 B. IS	by the International Sta O 13053:2010	andard Organization (IS C. ISO 13053:2011 D	O) defining a Six . ISO 13053:2012	Sigma process. L5 CO6
29. Which	of the following tech	nique is involved in cer B. Forward engine	tifying the sustained de	velopment of lega	cy systems?
	verse engineering		ering and Reengineering	5	L5 CO6
A.	of the following fran Assumption, Associat The investigation, Str.	ion, Learning	rried out in Adaptive So	oftware Developme	ent (ASD)?
· C.			ning, Iterative developm	nent	L5 CO6
			PART-B		
Q2a)Why	Spiral Model is calle	d Meta Model. Discuss	Spiral Model in detail w	vith a suitable diag	ram. (5)
	rrying out software en locument	gineering activities esta	blish the significance of (5)	Software Requirer	
	ifferentiate between th Data Coupling and Co Communicational Co		(4) Tohesion		
different each cate both upo customer sent to th the goods and shipp	mode of ordering the alog, or via the Web stated. If an item is out, a new record is create warehouse. A shipp from the warehouse aing it all to the custor	stuff. Customers place ite. When customer order at of stock, the inventor ted in the customer mas- bing statement is prepare and matching up the customer. The customer state	quality, fashionable clot orders by telephone, by ers come in, the item many ry control department is ter file. Picking slips are ed. The process of shipp tomer shipping statement ment is generated and a the accounting department	mailing an order a ster and the custom notified. If the or produced for the ing a customer ord t, getting the correct billing statement is	form included with ner master files are der is from a new customer order and er involves getting t customer address,
i)	Draw the Context		(2)		
ii)	Draw the Data Flo	ow Diagram Level 1.	(4)	L3 CC	2
telephone, in, the item department Picking slip process of s shipping sta is generated accounting d i. Dra	master and the custo is notified. If the ord is are produced for the hipping a customer of tement, getting the co and a billing statemate tepartment.	form included with each omer master files are bo ler is from a new custo the customer order and so order involves getting to correct customer address	mplate. (2.5)	by the site. When custs out of stock, the in ated in the custome, shipping statement house and matchin the customer. The	omer orders come eventory control or master file. It is prepared. The g up the customer customer statement eport is sent to the
				-	2000

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Q5) Consider the following Code Snippet:
 while(x<100)
if(a%2-0){
parity=0;}
else{
parity=1;
switch(parity)
case 1: println("[a["+i+"]is even");
case 2: println("[a["+i+"]is odd");
default: println("Error");
x++;
```

i) Draw a flow graph for the above code.

ii) Calculate the Cyclomatic Complexity for the flow graph using three different techniques.

(3)

(3)

iii) Give different independent paths. iv) How many test cases are required

(1) (1)

Q6. Consider the activities with preceding activities and their duration

L3 CO4

	Activity	Precedence	Duration (days)
A	Prepare foundations	- The state of the	7
В	Make and position door frames		2
C	Lay drain, floor base and screed		15
D	Install services and fitting	F	0
E	Erect walls	A,B	10
F	Plaster ceiling	D.G	2
G	Erect roof	F.	5
H	Install doors and windows	G	8
I	- Fit gutters and pipes	C,F	2
J	Paint outside	I	3
			The state of the s

i). Construct the Network Diagram. (5)

ii). Find out early start/early finish, late start/late finish and slack time for each activity in table.

iii). Find the Critical Path. (1) (1)

iv). Find the Critical Time

L3 CO5

--- End of Question Paper--

RegistrationNo: COURSE CODE: CSE320 COURSE TITLE: SOFTWARE ENGINEERING Time Allowed: 3 hrs
Read the following instructions carefully before attempting the question paper.
Read the following control of the Paper Code shaded on the OMR Sheet with the Paper Code in paper. Time Allowed: 3 hrs Time Allowed: 3 no.

Max. Marks: 70

Read the following instructions carefully before attentioned on the question paper.

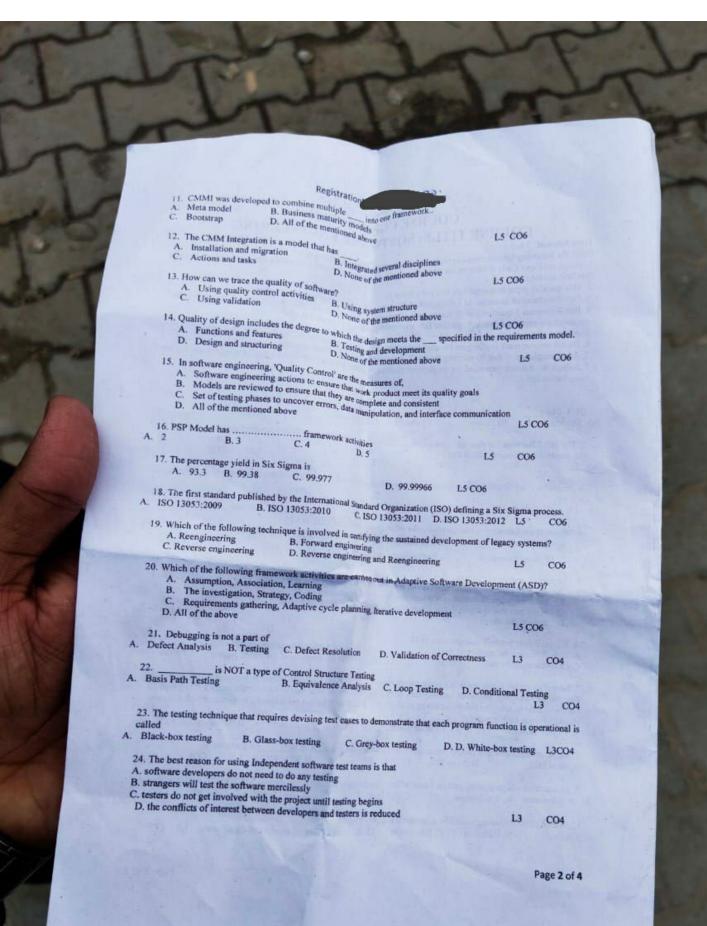
Read the following instructions carefully before attentioned on the question paper and ensure 1. Match the Paper Code shaded on the OMR Sheet with the Paper code mentioned on the question paper and ensure 1. Match the Paper Code shaded on the question paper and ensure 2. Marks: 70 that both are the same. 2. This question paper is divided into two parts A and B. 2. This question paper is divided into two parts A contains 30 questions of 1 mark each. 0.25 marks will be deducted for each wrong answer.

3. Part A contains 30 questions of 10 marks each. Attempt any 4 questions out a few wrong answer. 2. This questions of 1 mark each. 0.25 that any 4 questions out of these 5 questions. In case all the 5.

4. Part B contains 5 questions of 10 marks each. Attempt any 4 questions out of these 5 questions. In case all the 5. 4. Part B contains 5 questions of 10 final four attempted question will be evaluated. 5. Attempt all the questions in serial order. 5. Attempt all the questions in serial of the following on the question paper except your registration no. on the designated space.

7. After completion of first 90 minutes, the OMR sheet will be taken by the invigilator. After completion of first 90 minutes, are Order
 Submit the question paper and the rough sheet(s) along with the answer sheet to the invigilator before leaving the examination hall. Part- A path in the Network Diagram is critical path O1. 1. The ____ B) Easiest C) Curved D) Longest A) Shortest L3 CO5 2. The PERT Network has nine activities on the critical path. Each critical activity has standard deviation 3. What is the standard deviation of Critical Path. D) 27 B) 9 3. Pessimistic and optimistic completion time of an activity is 10 and 4 days respectively, Variance of the activity will be A. 18 B. 12 C.6 D. 1 4. Which of the following is used to predict the effort as a function of LOC or FP? A. COCOMO B. Both COCOMO and FP-based estimation L3 CO5 C. FP-based estimation D. Process-based estimation 5. The primary purpose of configuration status reporting is to A. allow revision of project schedule and cost estimates by project managers B. evaluate the performance of software developers and organizations C. make sure that change information is communicated to all affected parties L3 CO5 D. none of the above 6. A critical path network diagram does NOT: B. Identify the particularly important activities A. Help determine the amount of float D. Calculate the duration of the whole project C. Calculate earned value 7. John is an investor, and Jenny is a project team member. Both have intensive technical background for the project that you are managing. However, account to the project. They both that you are managing. However, recently they have disagreed on the next step to take for the project. They both decide to defer to wheever has the authority to decide which direction decide to defer to whoever has the authority to make this decision. Who has the authority to decide which direction should be taken for the project? should be taken for the project? D. Investors L3 CO5 A. Project manager C. The project team B. Stakeholders 8. Resource requirement in project becomes constant while the project is in its _ A. 40 to 55% B. 55 to 70% C. 70 to 80% D. 80 to progress stage. D. 80 to 95% P. To construct a high-quality, custom home within five months at costs not to exceed \$150,000" is best classified as
A. A deliverable B. A milestone C. A Limit D. An Objective L3 CO5 D. An Objective 10. Which of the following would be considered a direct project cost?

A. Labor B. Materials C. Equipment D. A. B. and C are all considered direct costs L3 CO5 Page 1 of 4



RegistrationNo:	
Smoke testing might best be described as A builtetproofing shrink-wrapped software C testing that hides implementation errors B. rolling integration on the control of th	
26. The Test Cases Derived from use cases A. Are most useful in uncovering defects in the process flows dering real. B. Are most useful in uncovering defects in the process flows dering real. C. Are most useful in covering the defects in the process flows during real. D. Are most useful in covering the defects at the Integration Level 27. What can static analysis NOT find?	L3 CO4 Orld use of the system world use of the system
27. What can static analysis NOT find? A) the use of a variable before it has been defined C) memory leaks B) unreachable ("dead") could be a variable of the country leaks	L3 CO4
C) file in cy reads	ie .
28. Which Test Document describes the Exit Criteria of Testing? A) Test Case B) Test Summary Report C) Test Plan D) Defect p	L3 CO4
D) Defect i	Report
A. StoredVars B. StoredVariables C. Variable Store	
D.	None of the Above L3CO4
30. Which component is not a Part of Selenium Suite A. Selenium IDE B. Selenium Web C. Selenium RC D, Selenium Gri	
GT CONTROL OF THE CON	Id L3 CO4
PART-B Q2a)Why Spiral Model is called Meta Model. Discuss Spiral Model in detail with	
b) In carrying out software engineering activities establish the significance of Soi (SRS) document (5)	ftware Requirement Specification L2CO1
Q3. a) Differentiate between the following i. Data Coupling and Content Coupling	
ii. Communicational Cohesion and Procedural Cohesion	
b) Trending Fashionista is a mail order supplier of high-quality. fashionable cloth	ing and accessories. It provides three
b) Trending Fashionista is a mail order supplier of high-quality, fashionable clothic different mode of ordering the stuff. Customers place orders by telephone, by neach catalog, or via the Web site. When customer orders come in the item mass both updated. If an item is out of stock, the inventory control department is customer, a new record is created in the customer master file. Picking slips are sent to the warehouse. A shipping statement is prepared. The process of shipp the goods from the warehouse and matching up the customer shipping statement and shipping it all to the customer. The customer statement is generated and a	mailing an order form included with ter and the customer master files are notified. If the order is from a new produced for the customer order and sing a customer order involves getting t, getting the correct customer address, billing statement is sent to a customer
b) Trending Fashionista is a mail order supplier of high-quality, fashionable clothic different mode of ordering the stuff. Customers place orders by telephone, by neach catalog, or via the Web site. When customer orders come in the item mass both updated. If an item is out of stock, the inventory control department is customer, a new record is created in the customer master file. Picking slips are sent to the warehouse. A shipping statement is prepared. The process of shipp the goods from the warehouse and matching up the customer shipping statement and shipping it all to the customer. The customer statement is generated and a once a month. An account receivable report is sent to the accounting department.	mailing an order form included with ter and the customer master files are notified. If the order is from a new produced for the customer order and sing a customer order involves getting t, getting the correct customer address, billing statement is sent to a customer
b) Trending Fashionista is a mail order supplier of high-quality, fashionable clothic different mode of ordering the stuff. Customers place orders by tdephone, by meach catalog, or via the Web site. When customer orders come in the item mass both updated. If an item is out of stock, the inventory control department is customer, a new record is created in the customer master file. Picking slips are sent to the warehouse. A shipping statement is prepared. The process of shipp the goods from the warehouse and matching up the customer shipping statement and shipping it all to the customer. The customer statement is generated and a once a month. An account receivable report is sent to the accounting department. i) Draw the Context Level Diagram (2)	mailing an order form included with ter and the customer master files are notified. If the order is from a new produced for the customer order and sing a customer order involves getting t, getting the correct customer address, billing statement is sent to a customer
b) Trending Fashionista is a mail order supplier of high-quality, fashionable clothic different mode of ordering the stuff. Customers place orders by telephone, by neach catalog, or via the Web site. When customer orders come in the item mass both updated. If an item is out of stock, the inventory control department is customer, a new record is created in the customer master file. Picking slips are sent to the warehouse. A shipping statement is prepared. The process of shipp the goods from the warehouse and matching up the customer shipping statement and shipping it all to the customer. The customer statement is generated and a once a month. An account receivable report is sent to the accounting department.	mailing an order form included with ter and the customer master files are notified. If the order is from a new e produced for the customer ordet and ping a customer order involves getting t, getting the correct customer address, billing statement is sent to a customer at.
b) Trending Fashionista is a mail order supplier of high-quality, fashionable clothic different mode of ordering the stuff. Customers place orders by tdephone, by neach catalog, or via the Web site. When customer orders come in the item mass both updated. If an item is out of stock, the inventory control department is customer, a new record is created in the customer master file. Picking slips are sent to the warehouse. A shipping statement is prepared. The process of shipp the goods from the warehouse and matching up the customer shipping statement and shipping it all to the customer. The customer statement is generated and a once a month. An account receivable report is sent to the accounting department. i) Draw the Context Level Diagram (2) ii) Draw the Data Flow Diagram Level 1. (4)	nailing an order form included with ter and the customer master files are notified. If the order is from a new produced for the customer order and sing a customer order involves getting t, getting the correct customer address, billing statement is sent to a customer at. L3 CO2
b) Trending Fashionista is a mail order supplier of high-quality, fashionable clothing different mode of ordering the stuff. Customers place orders by telephone, by meach catalog, or via the Web site. When customer orders come in the item mass both updated. If an item is out of stock, the inventory control department is customer, a new record is created in the customer master file. Picking slips are sent to the warehouse. A shipping statement is prepared. The process of shipp the goods from the warehouse and matching up the customer shipping statement and shipping it all to the customer. The customer statement is generated and a once a month. An account receivable report is sent to the accounting department. i) Draw the Context Level Diagram (2) ii) Draw the Data Flow Diagram Level 1. (4) Q4. World's Trend is a mail order supplier of high-quality, fashionable clothing, telephone, by mailing an order form included with each catalogue, or via the We in, the item master and the customer master files are both updated, if an item is of department is notified. If the order is from a new customer, a new process of shipping a customer order involves getting the goods from the warehouse. A slipping statement, getting the correct customer address, and shipping it all to the shipping statement, getting the correct customer address, and shipping it all to the shipping statement, getting the correct customer address, and shipping it all to the shipping statement, getting the correct customer address, and shipping it all to the shipping statement, getting the correct customer address, and shipping it all to the shipping statement, getting the correct customer address, and shipping it all to the shipping statement, getting the correct customer address, and shipping it all to the shipping statement, getting the correct customer address, and shipping it all to the shipping statement, getting the correct customer address.	nailing an order form included with ter and the customer master files are notified. If the order is from a new produced for the customer order and sing a customer order involves getting it, getting the correct customer address, billing statement is sent to a customer and the customer and the customer place orders by the state when customer orders come but of stock, the inventory control ed in the customer master file. hipping statement is prepared. The billing statement is prepared. The billing statement is prepared.
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RegistrationNo:
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Q5. Consider the following Code Snippet:
 while(x<100)
if(a%2=0){
parity=0;}
else{
parity=1;
switch(parity)
case 1: println("[a["+i+"]is even");
case 2: println("[a["+i+"]is odd");
default: println("Error");
```

i) Draw a flow graph for the above code.
ii) Calculate the Cyclomatic Complexity for the flow graph using three different techniques.

iv) How many test cases are required

(1) Q6. Consider the activities with preceding activities and their duration

L3 CO4

(3)

(3)

A B C D	Activity Prepare foundations Make and position door frames Lay drain, floor base and screed	Precedence	Duration (days) 7 2
E	Install services and fitting Erect walls	E	15
F	Plaster ceiling	A,B	10
G	Erect roof	D,G	2
H	Install doors and windows	E	5
1	ru gutters and nines	G	8
,	Paint outside	C,F	2
i) C		I	3

i). Construct the Network Diagram.

ii). Find out early start/early finish, late start/late finish and slack time for each activity in table.

(1) iv). Find the Critical Time

(1)

L3 CO5

- End of Question Paper