Seat	No.	:	20
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AK-104

April-2024

B.C.A., Sem.-IV

CC-209: System Analysis, QA and Testing

T	ime :	2½ Hours] [Max. Marks : 7	[Max. Marks: 70		
1.	V	Vrite the following:			
	(1 (2)		7 7		
1.	(1) (2)	List all fact finding techniques. Explain Interview and Observation in detail.	7 7		
2.	Wr	ite the following:			
	(1) (2)	Draw use case diagram for event management system. Explain the constituents of OOAD in detail. OR	7 7		
2.	(1)	Draw use case diagram of banking system where customer will register and open their account. Customer uses bank services like deposit cash, withdraw cash check balance, issue check book. Bank manager will be responsible to generate reports.	,		
	(2)	Explain different types of elements in sequence diagram.	7		
3.	Writ	te the following:			
	(1)	Explain different types of elements in Activity Diagram.	7		
	(2)	Create a class diagram for library management system. In this system, student are faculty can issue and return different categories of books like Journals, Magazine and Study Books. When there is book request the librarian checks for book availability. If the book is available, book issued otherwise display not availability message.	es ok		
		OR			
3.	(1)	List all elements of class diagrams. Explain Association and Generalization wi example.	th 7		
	(2)	Draw an activity diagram for MCA Admission System. MCA admission procedure is controlled by Gujarat University is as follows: Gujarat University advertises the date of MCA entrance examination. Student has to apply for the entrance examination.	7		
		 Results are declared by Gujarat University. The student has to fill up option form to select the college of his/her choice Gujarat University displays the allotment list in the website and notification to all colleges. Student should report the allotted colleges and complete the admission. 	n		
¥7 -		procedure.			
K-1	04	P.	T.O.		

4.	Write	the following:						
		Explain integration						7
9	(2) V	Vrite a short note o OR	on System Te	esting.				7
4. (1) E	xplain black box t	esting in det	ail				7
		-	_		otance criteria in det	ail.		7
				•				
	-	any seven out of						14
(1		class is divided in	to which of					
	(a)			(b)	attributes			
(2)	(c)	•	output of one	(d)	All of the above is input to the next	nhace (True	/Falca)	
(2) (3)		diagram is ti	_	_	is input to the next	phase. (True	"Taise)	,
(3)	(a)	Sequence		(b)	Activity			
	(c)	Class		(d)	None of the above	e		
(4)	` '	ic testing based	on princip	` /	ıman reading of p	rogram cod	le to d	letect
ì					e code to find error			
(5)	Whi	ch one is not a ty	pe of feasil	oility stu	ıdy?			
	(a)	economic		(b)	technical			
	(c)	schedule		(d)	incremental			
(6)		testing is use	d to check t	he code	.			
	(a)	White box test	ing	(b)	Closed box testing	ng		
	(c)	Black box testi	ng	(d)	None of the above	/e		
(7)	. ,	e are multiple fir	nal states in	activity	/ diagram. (True/F	alse)		
(8)					sent data that the s		es.	
(-)	(a)	External entity		(b)	Data store			
	(c)	Process		(d)	Data flow			
(9)			owing is no	. ,	ined fragment in s	equence di	agram	?
(2)	(a)	alt	0 11 22 23	(b)	loop	1	0	
				(d)	for			
(10)	(c)	opt	otionshin in	` '	se diagram has op	tional heha	viour	
(10)	(-)		ationship in			nonai ocna	vioui.	
	(a)	Extend		(b)	Include			
	(c)	Both		(d)	None	_		•
(11)		position indica e/False)	te strong	life o	cycle associated	between	the	classes.
(12)	The 1	multiplicity nota	tion 0* 1	neans				
-	(a)	one to many		(b)	zero to one			
	(c)	zero to many		(d)	many to many			
				(4)	many to many			