BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (END SEMESTER EXAMINATION)

CLASS:	BE	SEMESTER : VII)
BRANCI	H: IT	SESSION : MO/19	
TIME: 3:	SUBJECT: IT7029 OBJECT ORIENTED DESIGN	FULL MARKS: 60	1
INSTRU 1. The 2. Canc 3. The 4. Befo 5. Tabl	CTIONS: question paper contains 7 questions each of 12 marks and total 84 marks. didates may attempt any 5 questions maximum of 60 marks. missing data, if any, may be assumed suitably. re attempting the question paper, be sure that you have got the correct questio es/Data hand book/Graph paper etc. to be supplied to the candidates in the exar	n paper. nination hall.	
Q.1(a) Q.1(b) Q.1(c)	Define Polymorphism with an example. How does the Object-Oriented concept of Message passing help to encapsulate the of an object, including its data? What does it mean to say that an object oriented system is highly modular? How i in achieving reusable components?	implementation modularity helps	[2] [4] [6]
Q.2(a)	What is a Diagram? How it is different from model?	re process.	[2]
Q.2(b)	Write two advantages and two disadvantages of interviewing in requirement captu		[4]
Q.2(c)	What are the main activities of system development process? Explain them in brief		[6]
Q.3(a) Q.3(b) Q.3(c)	What is use case model? Explain with an example. Differentiate between functional and non functional requirements. Using an activity diagram, show the activities involved in developing prototypes building is important in object oriented system development?	. Why prototype	[2] [4] [6]
Q.4(a)	Define pre and post conditions with an example.		[2]
Q.4(b)	What are the roles of operation specifications?		[4]
Q.4(c)	Draw a sequence diagram for the use case ATM cash withdrawal.		[6]
Q.5(a)	Define event and state.		[2]
Q.5(b)	List four quality criteria of good analysis.		[4]
Q.5(c)	What is CRC Cards? Explain format of a CRC card.		[6]
Q.6(a)	Why should attributes be private?		[2]
Q.6(b)	What are the activities are undertaken during system design?		[4]
Q.6(c)	What is cohesion and coupling? What are the criteria for good design?		[6]
Q.7(a) Q.7(b) Q.7(c)	Define object state. What are the major differences between pattern and framework? What are the different fact-finding techniques to investigate requirements? List and two disadvantages of each	two advantages	[2] [4] [6]

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