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

CLASS: BRANCI	BE H: CSE		SEMESTER : VII SESSION : MO/19	
SUBJECT: CS7101 PRINCIPLES OF PROGRAMMING LANGUAGES TIME: 3:00 HOURS FULL MARKS: 0				
1. The 2. Canc 3. The 4. Befo 5. Tabl	lidates may at missing data, i re attempting es/Data hand b	r contains 7 questions each of 12 marks and total 84 marks. tempt any 5 questions maximum of 60 marks. if any, may be assumed suitably. the question paper, be sure that you have got the correct ques book/Graph paper etc. to be supplied to the candidates in the e	xamination hall.	
Q.1(a) Q.1(b) Q.1(c)	Define Syntax	age processor? , semantics and pragmatics of a programming language. n the key concepts of imperative programming.		[2] [4] [6]
Q.2(a) Q.2(b) Q.2(c)	What is dangling pointer? Explain the different problems associated with ADA packaging based on public type component only. Briefly explain the use of ADA limited private type.			[2] [4] [6]
Q.3(a) Q.3(b) Q.3(c)	Explain the va	merits of sub range types? arious advantages of generics in detail. n the concept of ADA based exception handling.		[2] [4] [6]
Q.4(a) Q.4(b) Q.4(c)		ation? arious advantages and disadvantages of semaphore. n Dekker's spin lock algorithm.		[2] [4] [6]
Q.5(a) Q.5(b) Q.5(c)		encer? Tent design issues of object-oriented languages. Sion polymorphism with a suitable example in C++.		[2] [4] [6]
Q.6(a) Q.6(b) Q.6(c)	What is Lazy	racteristics of functional programming. evaluation in functional programming. Explain the downside of thi ell pattern matching with a suitable example.	s technique also.	[2] [4] [6]
Q.7(a) Q.7(b) Q.7(c)	Briefly explai	clause in logic programming? n the concept of existential queries. arious datatypes supported in PYTHON.		[2] [4] [6]

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