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Code	No. 128BA	5	
Code	: 110: 120DA		
AG	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERAL B. Tech IV Year II Semester Examinations, July - 2019  DATABASE SECURITY  (Computer Science and Engineering)  Max. Max. Max. Max. Max. Max. Max. Max.	AG	/
Note	This question paper contains two parts A and B.  Part A is compulsory which carries 25 marks. Answer all questions in Part consists of 5 Units. Answer any one full question from each unit. Each question marks and may have a, b, c as sub questions.  PART - A		1
1.a) b) c) d) e) f) g) h) i)	What is man in the middle attack? Give a short note on transaction security. Write Tranquility principle. What is dial-p gate and root gate. What is design pattern and write its usage. What is unencrypted index? Write its purpose. What is complex object? Write key differences between frame based and object oriented databases. Define weak authorization base.	[2] [3] [2] [3] [2] [3] [2] [3] [2]	F
AG ji	What is active database? Write its features.  A A A ART-B A A A	[3] 50 Marks)	/
2.a) b)	What is access matrix model? Explain its major parts and implementation. Explain Take grant model in detail.	[5+5]	
	OR	[0.0]	
3.a) b) 4.a) b)	Explain in detail about database inference.  Give a note on database auditing.  What is Biba model? Write its features.  Explain the working principle of Biba model for database security.	[5+5] [5+5]	1
5.a) b)	Explain memory protection mechanisms. Explain, how database security is provided using Dion's model.	[5+5]	
6.a) b)	Explain design considerations for security software.  Explain different categories of inference.	[5+5]	1
7.a) b)	OR Describe different types of attacks for inference control evaluation. Write a note on ASES system.	[5+5]	
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	Write a note Write the second Explain SOF  a) Explain ORI	curity model for fra on the core conc curity issues in ob- RION model for particular.	epts of object orion OR bject oriented data brotecting object of tecture with a near	ent database.  abase.  oriented database  at sketch.	AG.	[5+5] [5+5]	A			
AG <sup>1</sup>	a) Write a note b) Explain abou	on Kogan's Mod ut authorization in	OR lel n detail and its typ	pes. 🛆 🔾	AG	[545]	A			
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