	Guru Nanak Ber	Engineering College, Lu of Information Technolo	ogy
Program	B.Tech.(IT)	Semester	5
Subject Code	PCIT-111	Subject Title	Internet of Things
Mid Semester Examination (MSE) No.	3	Course Coordinator	Prof. Himani Sharma
Max. Marks	24	Time Duration	1 hour 30 minutes
Date Of MST		Roll Number	

Q.No.	empt all questions Question	COs, RB T Level	Marks		
Q1	Illustate the IoT conceptual framework.	CO1, L3	2		
Q2	Analyze the detail the architectural components of IOT and M2M architecture.	CO1, L4	2		
Q3	Explain about the privacy and vulnerabilities of IoT. What are the security requirements and threat analysis in IoT?	CO1, L2	4		
Q4	Discuss the various domains and services capabilities in ETSI high level architecture for applications and services in the internet of ATM machine.	CO2, L2	4		
Q5	Compare and Contrast the different cloud deployment models. Monitor and evaluate the data collection, storage and computing with cloud computing,	CO2, L4	4		
Q6	Design and develop the sensor technology for sensing the real world using analog and digital sensors, and examples for sensing devices for IoT and M2M.	CO5, L5	8		
	Outcomes (CO) s will be able to				
1	Analyze IOT in terms of Conceptual framework				
2	Illustrate the design principles for connected devices and web- connectivity				
3	Discriminate the functionality of IP and MAC addresses alon	g with the ap	pplication		
4	Outline cloud computing paradigm for data Collection, storag	ge and comp	uting service		
5	I Elucidate sensor technology for sensing the real world using a	nolog and 1'	1, 1		
5	Outline security tomography of large networks and layered atta	acker model	Bital sellsols		

RBT Classification	Lower Order	Thinking Levels	Higher Order Thinking Levels			
RBT Level Number	L1	L2	L3	14 175		L6
RBT Name	Remembering	Understanding	Applying	Analyzing	Evaluating	Creating

	Guri	n Nanak Dev	Engineering	College, Ludhiana		
Program	D Took (IT)	Department of	of Informatio	n Technology		
Subject	B.Tech.(IT) PCIT-110		nester oject Title		5 Disci	
MSE No.	3	Con	wee Con H		The second second	ematics
Max.	24 Course Coordinator(s) Time Duration				Jaskiran Kaur	
Marks Date	02-12-2024	7-51 6			I hour	
Vote: Atta		Roll	Number			
Q. No.	mpt all questions		14 34			
			Question		COs, RBT	Mark
Q1	a) English bo	oks should be ke	of ways;	lish books can be arranged ays. art of the shelf or at end of		2
Q2				be formed using the word		2
Q3	Let R be a relation w	where R= { (1,1), (1,2), (2,3)} on a s	et A= {1, 2, 3}		4
Q4	Discuss the various			S.		
Q5	Each student in Lib	peral Arts at same	11 1			4
26	60 completed A, 45 to find number of si a) Atleast one b) Exactly one c) Neither A no	of A and B. or B.	completed A and completed.	d B. Use a venn diagram ode A to node Z in the	6	4
	a 2 2 2 4 2 d	3 5 7 4 f	e 1 z			
90 x7 630 x8	45360× 498960	(191) (19	1200)	1/2/2000		

(191) (191)

		Guru Nanak Dev	Engineering College, Ludl	ilalia		
			of Information Technology	5 th		
Program B.Tech.(11) Schicker		ning in Java				
Subject Code PCIT-109 Subject Title Programm		ali Sharda				
ISE No. 3 Course Coordinator(s) Pf. Gitanja Pf. Reema		verma				
The state of the s		minutes				
Max. M		24	Time Duration	1 Hour 50		
Date of	MST	03/12/2024	Roll Number	1		
Note: A	Attempt all question	ons			COs,	Marks
Q.		Qu	estion		RBT level	
No. Q1	What is primary purpose of Super vs Super()?				CO2,L1	2
		1 D 4 WII	" this statement Wi	th proper	CO1,L4	2
Q2	reasoning.	and Run Anywhere	"-support this statement wi	in proper		
Q3	If a class defines several constructor, is it feasible to invoke one constructor from another constructor? Justify your ans.					4
Q4	Demonstrate method overloading and method overriding by analyzing their roles in class hierarchies, their effects on method signature and inheritance, and their implications for code maintainability and extensibility.				CO2, L3	4
Q5	Develop code for user-defined exception which illustrate the usage of multiple "catch" blocks.				CO4, L5	4
Q6	a) Write a Java program that creates three threads. First thread displays "Good Morning" every one second, the second thread displays "Hello" every two seconds and the third thread displays "Welcome" every				8(4+4)	
	three second b) Evaluate the advantages and disadvantage of using checked and unchecked exception in java,In what scenarios might you choose one over another?					
Cours	se Outcomes (CO):Students will be able	e to			
1	Use primitive	data types, operators	and control statements to dev		ams.	
2	Discuss meth	ods and arrays along-v	with basic object oriented princ	iples.		
3	Implement ex	ception handling, mu	tithreading, string handling, pa	ckages and	interfaces.	
4	Develop even	it handling based com	ponents for interaction of the I	user with a	GUI.	
5	Create logic b	ased application by th	e use of strings.			

RBT	Lower Order Thinking Levels (LOTS) Higher Order Thinking Levels (HOTS)				
6	Identify and solve complex problems in the environment of Java programming.				
5	Create logic based application by the use of strings				
4	Develop event handling based components for interaction of the user with a GUI.				
3	Implement exception handling, multithreading, string handling, packages and interfaces.				
2	Discuss methods and arrays along-with basic object oriented principles.				
1	Use primitive data types, operators and control statements to develop programs.				

RBT Classification	Lower Order Thinking Levels (LOTS)			Higher Order Thinking Levels (HOTS)		
RBT Level Number	L1	L2	L3	L4	L5	L6
RBT Level Name	Remembering	Understanding	Applying	Analyzing	Evaluating	Creating