Hall	Tick	et Number :	
Cod	e: 50	G164 R-15	
		III B.Tech. II Semester Regular Examinations May 2018	
		Artificial Intelligence	
		(Computer Science and Engineering)	
-		Time: 3 Hou all five units by choosing one question from each unit ( 5 x 14 = 70 Mark	
7 (115		**************************************	- <b> </b>
	、		
1.	a)	Explain A* algorithm with an example. What are the limitations of A* algorithm?	7M
	b)	Illustrate the four types of agent programs.	7M
	ω)	OR	
2.	a)	Compare and contrast DFS versus BFS.	7M
	b)	Describe the heuristic search technique applied to a hill-climbing problem with	
		an example?	7M
0	- )	UNIT-II	
3.	a) b)	Discuss generalized modus ponens.	7M 7M
	b)	Differentiate between Forward Vs Backward reasoning. OR	7M
4.	a)		7M
	b)	Elucidate the completeness of resolution.	7M
	,	UNIT–III	
5.	a)	Describe the organization of objects into categories as part of knowledge	
		representation.	7M
	b)	Discuss the basic representations for planning.	7M
6	2)	OR	714
6.	a) b)	Explain propositional altitudes and referential transparency. Demonstrate a partial order planning example.	7M 7M
	0)		7 101
7.	a)	Illustrate prior probability and conditional probability with an example.	7M
	b)	Show the use of Bayes' rule with a suitable example.	7M
		OR	
8.	a)	Demonstrate joint probability distribution with a suitable example.	7M
	b)	Discuss conditional independence relations in belief networks.	7M
	、		
9.	a) b)	Write the practical uses of decision tree learning.	7M
	b)	Distinguish between single layer and multi-layer perception neural networks? OR	7M
10.	a)	Write the back propagation algorithm for updating weights in a multilayer network.	7M
	ري b)	Explain passive learning in a unknown environment.	7M
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Hall	Tick	et Number :												
Cod	e: 50	G161						J		J	1		R-15	
		III B.Tecl	n. II Sen	nester	Regu	Jar E	Exar	ning	atio	ns N	1ay 20	18		
			Crypto		-				Sec	urity	/			
May		arks: 70		( Con	nmon	to C	SE 8	۰IT)				Time	e: 3 Ho	urc
-		all five units	by choo	osing o	ne qu	estio	n fro	om e	each	ı uni	t ( 5 x 1			
			-	C	***>	*****					·			
1.	2)	Differentiate	botwoor				IT–I	cks						6M
1.	a) b)				•				1 hv	тл	– Star	udard <sup>:</sup>	ization	OIVI
	0)	sector and il			•		•		•					8M
						OR	2							
2.	a)	Explain in bi	rief Intern	et RFC	public	ation	proc	ess	with c	diagr	am			6M
	b)	Explain netv	vork secu	irity moo	del wit	n a ne	eat di	iagra	Im					8M
						_	IT–II							
3.	a)	With the hel	•	at diagr	am, ex	cplain	the o	data	flow	proc	ess in c	onver	ntional	6M
	b)	encryption p Explain key d		policy u	sed for	end to	o enc	1 enc	rvntio	n (c	onnectio	n oriei	nted)	8M
	5)			poneya		OR			rypuo			1 01101		OW
4.	a)	Discuss cipł	ner block	chainin	g mod	e with	diag	gram	in de	etail				8M
	b)	Illustrate De			-									6M
					Ĩ	UNI	T–III							
5.	a)	Explain diffe	rent auth	enticati	on pro	cedur	es u	sed i	in X.5	509				6M
	b)	Discuss ope	ration of	PGP										8M
						OR								
6.	a)	Differentiate					V5							6M
	b)	What is S/M	INE and	explain	In deta		<b>T</b> 11/	,						8M
7.	a)	With a neat	diagram	exnlain	a typi		T–IV enar		f IPS	ec u	sade			ЗM
	b)	What are the	•	•			onai	10 0		00 0	bugo			4M
	c)	Explain Dua												7M
	,	·	U		•	OR	2							
8.	a)	What select				•								6M
	b)	List the diffe	rent mes	sage ty	bes in			Ishal	ke Pr	otoc	ol			8M
0		\//rite_abort_r	actor on			UN	T–V							
9.	a)	Write short r (i) Troja	n Horses	:										
		(ii) Back												
		(iii) Zomł												6M
	b)	Explain Net	work Man	agemei	nt Arch	nitectu	ire							8M
4.0	、			<i>, ,</i>		OR								
10.	a) b)	List the desi									types c	IT TIP	walls	8M GM
	b)	What are the	e ameren	i approa			usio	n dei	lectio	n				6M

Hall Ticket Number :	
Code: 5G162	
III B.Tech. II Semester Regular Examinations May 2018	
Data Mining & Data Warehousing	
( Computer Science and Engineering) Max. Marks: 70 Time: 3 Ho	
Answer all five units by choosing one question from each unit ( $5 \times 14 = 70$ Mark	
UNIT-I	
1. a) Explain about the classification of Data Mining systems.	8M
b) Discuss the three tier data ware housing architecture.	6M
OR	
<ol><li>a) Explain with examples the need of preprocessing</li></ol>	7M
b) Explain about data cleaning	7M
UNIT–II	
3. a) Explain classification by Decision Tree Induction.	8M
b) How do you Evaluate the performance of a classifier?	6M
OR	
<ol><li>a) Discuss about classification by Back Propagation.</li></ol>	8M
b) Briefly explain about Prediction.	6M
UNIT-III	
5. a) Differentiate between Bayesian classification and Rule-based classification.	6M
b) Explain the data classification process with a neat diagram.	8M
OR	
6. a) Define Support Vector machines and Explain associative Classification	8M
b) Briefly explain the Ensemble methods	6M
<b>UNIT-IV</b> 7. a) Discuss Constraint based Association Mining.	8M
b) Explain the iceberg query with an example.	6M
OR	0
8. a) What are multilevel association rules? Explain with an example.	8M
b) Explain about mining distance based association rule.	6M
UNIT–V	
<ul> <li>9. a) Explain the categories of major clustering methods.</li> <li>b) Explain about Dertitioning methods</li> </ul>	7M
<ul> <li>b) Explain about Partitioning methods.</li> <li>OR</li> </ul>	7M
10. a) Explain about the Hierarchical methods for clustering.	7M
b) Explain about the Outlier analysis.	7M
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Hall	Tick	et Number :	
Code	•• 5G	R-15	
Coue	. 30	III B.Tech. II Semester Regular Examinations May 2018	
		Internet of Things	
		(Common to CSE & IT)	
-		arks: 70 er all five units by choosing one question from each unit ( 5 x 14 = 70 Marks )	Urs
,	115 * *	**************************************	
		UNIT–I	
1.	a)	Who is making Internet of Things? Explain each roles and responsibilities.	7M
	b)	Demonstrate design principles of connected devices in the Internet of Things. OR	7M
2.	a)	Discuss in detail about Radio Frequency Identification Technology.	10M
	b)	With neat diagram, explain generic block diagram of Internet of Things.	4M
		UNIT-II	
3.	a)	With neat sketches, demonstrate enterprise IoT stack and it role in designing	
		of IoT applications.	7M
	b)	Demonstrate Solutions Layer and it roles and responsibility in enterprise IoT stack.	7M
4	Disc	OR cuss the following in detail	
ч.		a) IoT security	
		o) Cognitive Platform Layer	
	(	c) Communication Layer	
	(	d) Analytics Platform Layer	14M
_	,		
5.	a)	Draw a flow chart and explain, the functionality of the home intrusion detection IoT system "to send email alert when an intrusion is detected".	8M
	b)	With neat sketches, explain an IoT application based on Asset Management.	6M
	0)	OR	0111
6.	a)	Draw the domain model of Smart parking Internet of Things system in smart	
		cities application.	7M
	b)	Discuss about how IoT is used in Condition Based Maintenance application	7M
7		UNIT-IV Illustrate Wireless Radio Ergguenav Identification (REID) Infrastructure for	
7.	a)	Illustrate Wireless Radio Frequency Identification (RFID) Infrastructure for wireless embedded internet in IoT.	7M
	b)	Write in detail about ZigBee compact application protocol.	7M
		OR	
8.	a)	With neat sketches explain The 6LoWPAN Architecture.	7M
	b)	Write short note on:	
		i. 6LoWPAN Format ii. 6LoWPAN Addressing	7M
			7 111
9.	a)	Design a Led lamp IoT application. "The LED lamp on or off state is depends	
0.		on the IoT application".	7M
	b)	What is Arduino? Explain the role of Arduino in development of Internet of	
		Things application.	7M
40		OR What are the major factors that are influences the design on Internet of	
10.	a)	What are the major factors that are influences the design an Internet of Things application?	7M
	b)	Write short notes on the following:	
	,	i. Microcontrollers	
		ii. Raspberry Pi	7M
		***	

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#### Code: 5G168

III B.Tech. II Semester Regular Examinations May 2018

# Software Project Management

(Computer Science and Engineering)

Max. Marks: 70

Time: 3 Hours

**R-15** 

Answer all five units by choosing one question from each unit ( $5 \times 14 = 70$  Marks)

# UNIT-I

- 1. a) What are the five necessary improvements for Waterfall model?
  - b) What do you mean by software Project and How does it differ from any other project?

#### OR

- 2. a) Discuss about the evolution of Software Project Economics?
  - b) Discuss about conventional software management performance?

## UNIT–II

- 3. a) Discuss in detail about the Life cycle phases of the software projects?
  - b) Explain about the properties of modern software management?

#### OR

- 4. a) Discuss and write about Artifact sets by focusing upon pragmatic artifacts?
  - b) What is the Iterative process and write about the phenomena for transitioning to an Iterative process?

## UNIT-III

- 5. a) What are the different aspects of and architecture from a management perspective and explain about it?
  - b) Explain about the Workflows of the Software process?

## OR

- 6. a) Discuss the typical sequences of Life-cycle check points?
  - b) Define about WBS and explain the evolutionary work break down structure?

## UNIT–IV

- 7. a) Discuss about Process Automation Building Blocks?
  - b) Explain the default roles in a software Line of business Organization?

#### OR

- 8. a) Discuss in detail about the pragmatic planning?
  - b) Discuss about Iterative Planning process and planning guidelines?

## UNIT-V

- 9. a) Discuss about the problems and Risks associated with Estimating of the software size?
  - b) Write and Discuss about Modern Project profile?

## OR

- 10. a) Give and explain about the overview of the Seven Core Metrics?
  - b) write a short notes on the following
    - i) process Discriminators ii) Next Generation –cost Model

Hall Tick	et Number :	
Code: 50	R-15	
	III B.Tech. II Semester Regular Examinations May 2018 <b>Smart Phone Programming</b> ( Computer Science and Engineering)	
Max. M Answei	arks: 70 all five units by choosing one question from each unit ( 5 x 14 = 70Mark ********** <b>UNIT-I</b>	
1. a) b)		10M 4M
2. a)	Elaborate about the following: i. Activity ii. layout file iii. Manifest file	6M
b)	Draw the sketch of Android Activity Life cycle and explain different phases of activity life cycle.	8M
3. a)	Demonstrate with example how we can arrange GUI elements in an android application layout using i. Linear Layout	4014
b)	<ul> <li>Relative Layout.</li> <li>Write about common attributes used in views and viewgroups.</li> <li>OR</li> </ul>	10M 4M
4.	Explain the usage of following basic views with examples: i) Button ii) EditText iii) Image Button iv) CheckBox	14M
5.	UNIT–III Demonstrate with example how to use Gallery, ImageView and GridView in developing android application. OR	14M
6. a) b)	Discuss about the process of saving data in internal storage and external storage with sample code snippets. Illustrate with example the usage of sharedpreferences object in saving data.	8M 6M
7. a)	<b>UNIT-IV</b> Write about various content providers supported by Android and explain the process of sharing data in android.	8M
b)	State the purpose of URI. Write the format of URI and explain the various components of URI with examples.	6M
8.	OR Explain the process of sending sms. Discuss about the sendTextMessage(), Smsmanager and its various methods.	14M
9.	<ul> <li>Explain about the following with respect to displaying maps:</li> <li>i. How to change the views of google maps.</li> <li>ii. How to obtain the latitude and longitude of location in google maps.</li> <li>Write sample code snippets also.</li> </ul>	14M
10.	Explain the process of communication between a service and activity. Write sample required code snippets.	14M

На	ll Tio	cket Number :	
Cod	de:	5G167	
		III B.Tech. II Semester Regular Examinations May 2018	
		Software Testing Methodologies	
		( Computer Science and Engineering ) Marks: 70 Time: 3 Hours	
		er all five units by choosing one question from each unit ( 5 x 14 = 70 Marks )	
		*******	
		UNIT–I	
1.	a)	What are different types of testing? Explain them briefly	71
	b)	What are control and sequence bugs? How they can be caught?	71
		OR	
2.	a)	Demonstrate test bug remedies and illustrate requirement bugs?	61
	b)	To what extent can testing be used to validate that the program is fit for its purpose.	
		Discuss?	8
~	- )		
3.	a)	Define Path Sensitization. Explain heuristic procedure for sensitizing paths with the help of an example.	71
	b)	Illustrate with an example, how statement and branch coverage can be achieved	
		during path selection. Write all steps involved in it.	71
4	- )	OR	7
4.	a)	Explain about multi entry and multi exit routines and fundamental path selection criteria?	71
	b)	Define path testing and explain about decision and case statements?	71
_	-)		7
5.	,	The transaction flows are often ill structure. Discuss its reasons.	71
	b)	Explain Nice & Ugly Domains	71
6.	$\sim$	OR Distinguish between control flow and transaction flow?	71
0.	a) b)		71
	b)	Explain the terms inspections, reviews and walkthroughs?	71
7.		Find the path expression for the given flow graph by applying node-by-node	
<i>.</i>		removal algorithm	
		d	
		d	
		$1 \xrightarrow{a} 3 \xrightarrow{b} 4 \xrightarrow{c} 2$	
		h	14
		OR	141
8	a)	What is a regular expression? Explain its role in flow anomaly detection with	
-	- )	suitable examples	71

b) Discuss the significance of decision tables in logic based testing 7M

## UNIT-V

- 9. a) Discuss briefly about good state graphs and bad state graphs. 7M
  - b) How do you represent graphs in matrix formats? Discuss with examples. 7M

#### OR

- 10. a) What is meant by transition testing? With suitable state graphs explain transition testing. 8M
  - b) What are graph matrices and their applications?

6M