





MALLA REDDY COLLEGE OF ENGINEERING &TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

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(Affiliated to JNTU, Hyderabad, Approved by AICTE - Accredited by NBA & NAAC - "A" Grade - ISO 9001:2015 Certified) Maisammaguda, Dhulapally (Post Via Hakimpet), Secunderabad - 500100, Telangana State, India. Contact Number: 040-23792146/64634237, E-Mail ID: mrcet2004@gmail.com, website: www.mrcet.ac.in

DEPARTMENT OF INFORMATION TECHNOLOGY IV B.TECH ISEMESTER QUESTION BANK2019-20



LIST OF SUBJECTS

CODE	NAME OF THE SUBJECT
R15A0528	DESIGN PATTERNS
R15A0530	BIG-DATA ANALYTICS
R15A0533	COMPUTER FORENSICS
R15A0562	HUMAN COMPUTER INTERACTION
R15A0563	MOBILE APPLICATION DEVELOPMENT
R15A0570	APPLICATION PROGRAMMING

R15A0528 DESIGN PATTERNS

Code No: R15A0528

1

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

IV B. Tech I Semester Examinations, November 2019 Design Patterns

		(I	T)			
Roll No						

Time: 3 hours Max. Marks: 75

Note: This question paper contains two parts A and B

Part A is compulsory which carriers 25 marks and Answer all questions.

Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer FIVE Questions,

Choosing ONE Question from each SECTION and each Question carries 10 marks.

1.a)	Explain the Essential elements of Design Patterns?	[2M]
b)	How to select a design pattern?	[3M]
c)	How many objects is the Singleton responsible for creating?	[2M]
d)	Explain the Partial Glyph class Hierarchy?	[3M]
e)	What is the basic problem being solved by the Bridge pattern?	[2M]
f)	What are the two variations of the Adapter pattern?	[3M]
g)	What is the intent of mediator pattern?	[2M]
h)	What are the consequences of Chain of Responsibility pattern?	[3M]
i)	What is Template method pattern?	[2M]
j)	What is the purpose of Visitor pattern?	[3M]
	PART-B (50 MARKS)	
	SECTION-I	
2	a. How to Determine Object Granularity?	[5M]
	b. Explain the Formatting –algorithm in Document Structure?	[5M]
	OR	
3	a. Give the step-by-step approach to apply a design pattern effectively.	[5M]
	b. What is the basis for classifying design patterns? Categorize and tabulate	[5M]
	the design patterns.	
	SECTION-II	
4	a. Discuss about Lexi's user interface and its design problems.	[5M]
	b.The Singleton uses a special method to instantiate objects. What is special	[5M]
	about this method?	
	OR	
5	a. What are the implementation issues of prototype design pattern? Discuss.	[5M]
	b. Can we use an abstract factory for supporting multiple window system in	[5M]
	Lexi's design? Explain.	
	SECTION-III	
6	a.Discuss in detail about the participants and consequences of Composite	[5M]
J	pattern.	[01.1]
	b. What is the intent and motivation of Façade pattern? Explain.	[5M]
	o and in the most will most reason of I again pattern. Explain.	[01,1]

OR

7	a. When can be a Flyweight pattern effectively be applicable? Explain.b. What are the different language features that are exploited by proxy	[5M] [5M]
	pattern?	
	SECTION-IV	
8	a. Write about the implementation issues of memento pattern.	[5M]
	b.Explain the motivation and applicability of observer pattern.	[5M]
	OR	
9	a. What is Command Pattern? Describe in detail about structure, participants	[10M]
	and collaborations of Command pattern.	
	SECTION-V	
10	a.Discuss the implementation issues of Strategy behavioral pattern.	[5M]
	b.Explain what to expect from design patterns.	[5M]
	OR	
11	a.Discuss about the structure and participants of state design pattern.b.Write about Pattern community in brief.	[5M] [5M]
	*****	[SWI]

Code No: R15A0528

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(Autonomous Institution – UGC, Govt. of India)

IV B. Tech I Semester Examinations, November 2019 Design Patterns

		(I	T)			
Roll No						

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Part A is compulsory which carriers 25 marks and Answer all questions.

Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer FIVE Questions,

Choosing ONE Question from each SECTION and each Question carries 10 marks.

1.a)	What is Gang of Four <i>GOF</i> ?	[2M]
b)	Explain design patterns in Smalltalk MVC.	[3M]
c)	Draw the structure Factory Method.	[2M]
d)	Explain about recursive composition.	[3M]
e)	Write intent of Proxy pattern.	[2M]
f)	Write motivation of Wrapper pattern.	[3M]
g)	What are known uses of Iterator pattern?	[2M]
h)	Write benefits and drawbacks of Mediator pattern.	[3M]
i)	What is the intent of Strategy pattern?	[2M]
j)	Describe patterns in software.	[3M]
	PART-B (50 MARKS)	
	SECTION-I	
2	a. What are some common causes of redesign? Explain.	[5M]
	b. How to use a design pattern? Explain in detail	[5M]
	OR	
3	a. Discuss about toolkits and frameworks.	[5M]
	b. Draw a diagram to describe design pattern relationships.	[5M]
	SECTION-II	
4	a. Describe formatting in Lexi's design.	[5M]
	b. What are consequences of Builder pattern? Explain Builder pattern	[5M]
	implementation.	
	OR	
5	a. Explain about encapsulating the analysis in Lexi's design.	[5M]
	b. Write sample code of Prototype pattern.	[5M]
	SECTION-III	
6	a. Explain the sample code of Flyweight pattern.	[5M]
	b. Discuss about implementation issues of Decorator pattern.	[5M]
	1	
	OR	
7	a. Write about motivation and consequences of Façade pattern.	[5M]
	1 5 1	

	b. Write sample code of Composite pattern.	[5M]
	SECTION-IV	
8	a. Explain about Mediator pattern.	[5M]
	b. Explain about motivation of Mediator pattern.	[5M]
	OR	
9	a. Briefly discuss about Memento pattern.	[5M]
	b.Describe implementation of Command pattern.	[5M]
	SECTION-V	
10	a. Write some of the benefits and liabilities of the Visitor pattern.	[5M]
	b. Discuss about the pattern community.	[5M]
	OR	
11	a.Discuss about the behavioral patterns.	[5M]
	b.Write about Template method pattern in brief.	[5M]
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Code No: R15A0528

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

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IV B. Tech I Semester Examinations, November 2019 Design Patterns

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Roll No						

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1.a)	Describe about pattern name.	[2M]
b)	What do you mean by consequences?	[3M]
c)	Write about document structure.	[2M]
ď)	Explain briefly about "Monoglyph".	[3M]
e)	Describe the motivation for Bridge Pattern.	[2M]
f)	What are all the Participants for Proxy Pattern?	[3M]
g)	What are the Consequences of Chain of Responsibility Pattern.	[2M]
g) h)	Write the Pattern name and Classification of Observer Pattern.	[3M]
i) j)	What can we expect from a Design Pattern?	[2M]
j)	Write about Applicability of State Pattern.	[3M]
	PART-B (50 MARKS)	
	SECTION-I	
2	a. How to use design patterns? Explain in detail.	[5M]
	b Explain about selection of a design pattern.	[5M]
	OR	
3	a How a Design pattern solves the design problem? Illustrate with an example.	[10M]
	SECTION-II	
4	a. Discuss the Motivation, Structure, Collaborations and Implementation of	[10M]
	the following Patterns:	
	a) Abstract Factory b) Prototype.	
	OR	
5	Explain in detail about "supporting multiple window systems".	[10M]
	SECTION-III	
6	Discuss the Intent, Applicability, Sample code, and Known uses of the	[10M]
	following Patterns:	
	a)Adapter b) FlyweiOghRt.	

OR

Discuss the pattern name, Applicability, Consequences and Related Patterns 7 [10M]of the following Patterns Bridge b) Proxy a) **SECTION-IV** 8 Explain in detail about Command pattern. [10M] OR 9 Describe in detail about Iterator Pattern. [10M][10M] 10 Explain the Motivation, Participants, Structure and Implementation of following Patterns State b) Template Method. a) OR Discuss briefly about the following Patterns: [10M] 11

Visitor b) Strategy.

a)

Code No: R15A0528

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IV B. Tech I Semester Examinations, November 2019 Design Patterns

		$(\mathbf{I}$	T)			
Roll No						

Time: 3 hours Max. Marks: 75

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Part A is compulsory which carriers 25 marks and Answer all questions.

Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer FIVE Questions,

Choosing ONE Question from each SECTION and each Question carries 10 marks.

PART-A (25 Marks)

1.a)	Describe the Subscribe/Notify protocol in MVC model.	[2M]
b)	Explain the benefits of manipulating objects in terms of interface defined	[3M]
	byabstract class?	
c)	Explain the Toolkit with suitable examples?	[2M]
d)	Explain the Recursive Composition with Object Structure?.	[3M]
e)	Explain the Concept of Transparent Enclosure?	[2M]
f)	Explain the Implementation of issues of Prototype Pattern?	[3M]
g)	Explain the Intent and Participants in Bridge Pattern?.	[2M]
h)	Explain Remote, Virtual, Protection proxy patterns?	[3M]
i)	Explain the Collaborations of Command pattern?	[2M]
j)	How We can change & extend grammar in Interpreter patterns?	[3M]
•	PART-B (50 MARKS)	
	SECTION-I	
2	a. Explain the Spelling Checking and Hyphenation in Document Structure.	[5M]
	b Compare the Glyph and Mono Glyph.	[5M]
	OR	
3	a Explain the Catalog of Design Patterns?.	[10M]
	SECTION-II	
4	a. Explain the Consequences of Abstract Factory.	[10M]
	OR	
5	b. Explain the Sample Code Of Singleton Pattern?	[10M]
	SECTION-III	
6	a)Explain Robustiterator & Nulliterator	[5M]
U		
	b) Explain the benefits & Drawbacks of Mediator?	[5M]
	OR	
7	Explain the TCP connection in state with Suitable code?	[10M]
	•	

SECTION-IV

8 Explain Policy pattern in Behavioral pattern? [10M] OR Explain Node Visitor in Abstract Syntax Tree? [10M] 9 **SECTION-V** Explain the Implementation of Template Patterns in Strategy? 10 [10M] OR Write short notes on the following.: [10M] 11 b) Life Cycle of Object Oriented Software.

****** a) Pattern Community

R15A0530 BIG-DATA ANALYTICS

Code No: R15A0530

MODEL I

R15

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

IV B. Tech I Semester External Examinations 2019-2020

Big-Data Analytics (Associate Analytics-2)

information Technology											
Roll No											

Time: 3 hours Max. Marks: 75

Note: This question paper contains two parts A and B

Part A is compulsory which carriers 25 marks and Answer all questions.

Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer FIVE Questions,

Choosing ONE Question from each SECTION and each Question carries 10 marks.

	PART-A (25 Marks)	
1). a	What is Data Management?	[2M]
b	List out Enterprise Requirements.	[3M]
c	What are the features of scala?	[2M]
d	Define the term HDFS.	[3M]
e	What is RDBMS?	[2M]
f	How NoSQL is faster than SQL?	[3M]
g	What is Machine Learning algorithm?	[2M]
h	Discuss machine learning algorithm in the context of multiple analytical methodologies?	[3M]
i	Why do we use Data Visualization?	[2M]
j	How Data Visualization is used in getting drawinsights out of visualization tool?	[3M]
	PART-B (50 MARKS) <u>SECTION-I</u>	
2	a. Compare various sources of data with suitable example?	[5M]
	b. Describe the importance of data quality in data management? OR	[5M]
3	Explain in detail about Protect health & safety as your work	[10M]
	SECTION-II	
4	Briefly explain about Spark and Scala	[10M]
	OR	
5	a. Analyse knowledge management in Big Data Analytics?	[5M]
	b. Compare compliances and reporting in Associate Analytics?	[5M]
	SECTION-III	
6	a. Explain the characteristics of NoSQL databases.	[5M]

	b. Distinguish between SQL and NoSQL.	[5M]
	OR	
7	Define and differentiate between outlier detection and elimination with two examples?	[10M]
	SECTION-IV	
8	Discuss in detail about train model on 2/3 sample data using various statistical algorithms?	[10M]
_	OR	
9	a. Explain about support vector machine	[5M] [5M]
	b. Distinguish between machine learning and data mining.	[SIVI]
	SECTION-V	
10	Demonstrate prepare the data for visualization with any two illustrations? OR	[10M]
11	Explain Data presentation architecture in detail.	[10M]

Codo	No: R15A0530 MODEL II	R15
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	IV B. Tech I Semester External Examinations 2019-2020	
	Big-Data Analytics (Associate Analytics-2)	
	Information Technology	
	Roll No	
Time	3 hours Max. Marks: 7	5
	This question paper contains two parts A and B	o .
	Part A is compulsory which carriers 25 marks and Answer all questions.	
	Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer	
	Questions, Choosing ONE Question from each SECTION and each Question camarks.	irries 10

	PART-A (25 Marks)	
1). a	TART-A (25 Maiks)	
1). u	What is Big Data?	[2M]
b	What is Big Data? Define data quality? Explain.	[3M]
•	What is Big Data?	[3M] [2M]
b	What is Big Data? Define data quality? Explain.	[3M]

f g h i	List out different types of NoSQL databases. What is Supervised learning? Define Hypothesis Testing? What is the role of Tableu in Data Visualization?	[3M] [2M] [3M] [2M]
j	Write short note on DPA?	[3M]
	PART-B (50 MARKS) <u>SECTION-I</u>	
2	Explain in detail for generating primary data.	[10M]
	OR	
3	a. Explain about work place safety.	[5M]
	b. Write short note on Randomized Block Design.	[5M]
	SECTION-II	
4	What are main components of Hadoop? Illustrate.	[10M]
	O.D.	
5	OR a. Explain the features of Hadoop.	[5M]
	b. Explain in detail about Apache Spark	[5M]
	SECTION-III	
6	Explain different types of NoSQL data stores.	[10M]
7	OR	F4.03.#1
7	Explain about column oriented database.	[10M]
	SECTION-IV	
8	Explain the KDD task in detail. OR	[10M]
9	a. What are practical uses of Machine Learning?	[5M]
	b. Why is Machine Learning joined with Data Analytics?	[5M]
	SECTION-V	
10	a. Explain Data visualization using Tablue.	[5M]
	b. Explain Data Visualization using visualisation tools.	[5M]
11	OR What is Data presentation architecture (DPA)? Explain.	[10M]

MODEL III

Code No: R15A0530

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

IV B. Tech I Semester External Examinations 2019-2020

Big-Data Analytics (Associate Analytics-2) Information Technology

		Roll No												
Time	3 hours										N	lax.	 Marks: 75	
Note:	Note: This question paper contains two parts A and B													
	Part A is compulsory which carriers 25 marks and Answer all questions. Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer FIVE													
					•								uestion carries 10	
	marks.	, Choosing OIL	Ques	otion	1101	n ca	JII 15	LCI	1011	anc	cac	пу	destion earlies 10	
					**	**								
			PAI	RT-A	(2:	5 Ma	rks))						
1). a	What did y	ou understand abo	out B	ig da	ata T	oolsʻ	?						[2M]	
b	Write elem	nents of data archit	tectu	re.									[3M]	
c	Define Ma	preduce?											[2M]	
d	What are the	he features of Imp	ala?										[3M]	
e	Differentia	ate Structured and	Unst	ructu	ired	data.							[2M]	
f		ds of Big Data An	•										[3M]	
g	What is R	einforcement learn	ning?)									[2M]	
h	How Train	Model differ from	n Tes	st Mo	odel.								[3M]	
i	List differe	ent Data Visualiza	tion '	Tool	s.								[2M]	
j	Write dow	n steps involved in	n Dat	a Vi	suali	zatio	n in	Tabl	leu.				[3M]	
]	PAR	Т-В	(50	MA	RKS	5)						
)N-I								
2	a. Ex	plain the sources o	of sec	onda	ıry d	ata.							[5M]	
	b. Ex	aplain GPS and sig	nal c	lata i	n de	tail.							[5M]	
					OR									
3	c. Wh	nat is data quality?	Exp	lain.									[5M]	

SECTION-II

4 Explain knowledge management process of any organization.

d. Write short note on Accidents & Emergencies

[10M]

[5M]

	OR	
5	a. Distinguish between Scala and Impala.	[5M]
	b. What is data imputation? Explain.	[5M]
	SECTION-III	
6	a. Compare SQL and NoSQL?	[5M]
	b. Explain about Key-value data store.	[5M]
	OR	
7	Describe graph database with example.	[10M]
8	a. Explain Train model using machine learning algorithms.	[5M]
	b. What are steps followed in Machine Learning Algorithm? Explain.	[5M]
	OR	
9	Discuss in detail about train model on 1/3 sample data using various prediction algorithms?	[10M]
	SECTION-V	
10	a. Explain the features of Tablue.	[5M]
	b. How will you visualise the information using Tablue? Explain.	[5M]
	OR	
11	Describe in detail different Data Visualization Tools.	[10M]

Code No: R15A0530 MODEL IV

R15

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

 $(Autonomous\ Institution-UGC,\ Govt.\ of\ India)$

IV B. Tech I Semester External Examinations 2019-2020 Big-Data Analytics (Associate Analytics-2)

(IT)
Roll No

Time: 3 hours Max. Marks: 75

Note: This question paper contains two parts A and B

Part A is compulsory which carriers 25 marks and Answer all questions.

Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer FIVE Questions,

Choosing ONE Question from each SECTION and each Question carries 10 marks.

1) 0	Analyza AWS in the contact of data management?	[2][]
1). a	Analyze AWS in the context of data management?	[2M]
b	Discuss the role of manage the data for analysis in data management?	[3M]
c	What is the significance of Data ETL process in Big Data Tools?	[2M]
d	Describe information in standard formats with respect to Big Data Tools?	[3M]
e	How Outlier can be eliminated in Big Data Analytics?	[2M]
f	What is the business requirement with respect to Big Data Analytics?	[3M]
g	Interpret hypothesis testing in machine learning algorithms?	[2M]
h	Discuss machine learning algorithm in the context of multiple analytical methodologies?	[3M]
i	Summarise product implementation with respect to data visualization?	[2M]
j	How Data Visualization is used in getting drawinsights out of visualization tool?	[3M]
	PART-B (50 MARKS)	
	<u>SECTION-I</u>	
2	a. Compare various sources of data with suitable example?	[5M]
	b. Describe the importance of data quality in data management?	[5M]
	OR	
3	a. What is design data architecture in data management?	[5M]
	b. Demonstrate data pre-processing in data management?	[5M]
	SECTION-II	
4	a. Discuss the significance Hadoop in Associate Analytics?	[5M]
	b. Define and differentiate between impala and spark with respect to Big Data	[5M]
	Tools?	
	OR	
5	c. Analyse knowledge management in Big Data Analytics?	[5M]
	d. Compare compliances and reporting in Associate Analytics?	[5M]
	SECTION-III	[-1.2]
6	a. Formulate the methodology in understanding the nature of the data?	[5M]
U	b. Describe collate all the data sources to suffice business requirement?	[5M]
	b. Describe conface an the data sources to suffice business requirement:	
	OR	
7	Define and differentiate between outlier detection and elimination with two	[10M]
	examples?	
	SECTION-IV	
8	Discuss in detail about train model on 2/3 sample data using various statistical	[10M]
	algorithms?	
	OR	
9	a. What is Machine learning	[5M]
	b. What are the types of Machine learning.	[5M]
	SECTION-V	
10	Demonstrate prepare the data for visualization with any two illustrations?	[10M]
	OR	
11	Explain in detail about Tableau in data visualization?	[10M]

R15A0533 COMPUTER FORENSICS

Code No: R15A0533

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

IV B. Tech I Semester Examinations, May 2019

Computer Forensics (Information Technology)

MODEL PAPER – 1

Roll No					

Time: 3 hours Max. Marks: 75

Note: This question paper contains two parts A and B

Part A is compulsory which carriers 25 marks and Answer all questions.

Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer FIVE Questions,

Choosing ONE Question from each SECTION and each Question carries 10 marks.

PART-A (25 Marks)

1) a)	Explain the Steps taken by Computer Forensics Specialist	[3M]
b)	Write three types of Computer Forensics Technologies.	[2M]
c)	Write five rules of Evidences and Explain in Brief.	[3M]
d)	Explain the Concept of Digital ID	[2M]
e)	Write about how to secure a Network	[3M]
f)	What are the three rules of forensic hash.?	[2M]
g)	What the four places where mobile device information might be stored	[2M]
h)	How many ways that we can isolate a mobile device from incoming signals	[3M]
i)	What is a virtual machines	[2M]
j)	What is a cluster and explain what is virtual cluster in brief	[3M]

PART – B (50 Marks)

SECTION - I

2) Explain about "Employee Safeguard Program".

[10M]

(OR)

3) What is computer forensics? Explain the use of computer forensics in law enforcement?

SECTION - II

4) Explain controlling contamination: The chain of custody

[10M]

(OR)

5)Explain the complete legal Aspects of Collecting and Preserving Computer Forensic Evidence

SECTION - III

6) Explain how to validate Forensic Data with an Example?

[10M]

(OR)

7) Give an overview of Network forensics? [10M]

SECTION - IV

8) What is role of e-mail in forensic investigations? (OR)

9)Explain the SIM card and SIM file structure?

SECTION - V

10) Write short notes on MS-DOS start-up task system (OR)

11) Write short notes on:

- a) Windows Registry
- b) NTFS System Files.

Code No: R15A0533

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

IV B. Tech I Semester Examinations, May 2019

Computer Forensics (Information Technology) **MODEL PAPER – 2**

Roll No					

Time: 3 hours Max. Marks: 75

Note: This question paper contains two parts A and B

Part A is compulsory which carriers 25 marks and Answer all questions.

Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer FIVE Questions,

Choosing ONE Question from each SECTION and each Question carries 10 marks.

PART-A (25 Marks)

1) a)	What is a Computer Forensics?	[2M]
b)	Briefly Explain the Computer Forensics Services.	[3M]
c)	What and Explain the Role of Back-up in Data Recovery?	[2M]
d)	Explain the Importance of bit-stream image back-ups	[3M]
e)	What is a Packet Sniffers	[2M]
f)	Explain How to Examine the Honeynet Project	[3M]
g)	Explain the Roles of Client and Server in Email	[3M]
h)	Explain how to tracing an Email message	[2M]
i)	Explain the features of NTFS	[3M]
j)	Explain the Windows Registry Commands	[2M]

PART – B (50 Marks)

SECTION - I

2) What are the benefits of professional forensics methodology? Explain. [10M]

- 3) Explain the following business computer forensics technology
 - i) creating trackable electronic documents
 - ii) Forensic services available

SECTION - II

4) What is a Evidence and Explain the Types of Evidence.

[10M]

5)Explain the complete process of "Microsoft's Authenticode – VeriSign" Digital IDs Process

SECTION - III

6) How are standard procedures developed for network forensics? (OR)

[10M]

7) Explain the process of seizing of digital evidence at the scene?

SECTION - IV

8) Explain the process of investigating E-mail crimes and violations? (OR)

[10M]

9) Explain computer forensics hardware tools?

SECTION - V

(OR)

10) Explain the NTFS Encrypting File System

[10M]

11)Write a Short Notes on

- a) Virtual machines.
- b) FAT disks

Max. Marks: 75

Code No: R15A0533

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

IV B. Tech I Semester Examinations, May 2019

Computer Forensics (Information Technology) **MODEL PAPER – 3**

Roll No					

Time: 3 hours **Note:** This question paper contains two parts A and B

Part A is compulsory which carriers 25 marks and Answer all questions.

Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer FIVE Questions,

Choosing ONE Question from each SECTION and each Question carries 10 marks.

PART-A (25 Marks)

1	a)	Explain the Purpose of Computer Forensics?	[2M]
	b)	Explain the benefits of Professional Forensics Methodology	[3M]
	c)	Briefly Explain types of Evidence.	[2M]
	d)	Write the Collection Steps of Evidence in Sequence	[3M]
	e)	Explain the Concept of Bit-Shifting	[2M]
	f)	Explain the Process of Steganography to Hide data	[3M]
	g)	Explain the types of Computer Forensics Tools	[2M]
	h)	List four subfunctions of reconstructing drives	[3M]
	i)	Explain the features of NTFS	[3M]
	j)	What is a virtual machines	[2M]

PART – B (50 Marks)

SECTION - I

2) What are the benefits of professional forensics methodology? Explain. [10M] (OR)

3) Explain about Types of Military Forensic Technology

SECTION - II

4) How Authenticode works with VeriSign Digital IDs? (OR)

[10M]

5) Explain the Role of Evidence in Computer Forensics and Explain special needs of evidential authentication?

SECTION - III

6) What is live acquisition? How are they performed? [10M]
(OR)

7) How are standard procedures developed for network forensics?

[10M]

SECTION - IV

8) Explain the process of investigating E-mail crimes and violations? [10M] (OR)

9)Explain any two computer forensics software tools?

SECTION - V

10) Write short notes on MS-DOS start-up task system (OR)

[10M]

- 11) Write short notes on:
 - a) NTFS System Files
 - b) Virtual machines.

Code No: R15A0533

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

IV B. Tech I Semester Examinations, May 2019

Computer Forensics (Information Technology) **MODEL PAPER – 4**

Roll No							
					Μ	ax.	Marks: 75

Time: 3 hours **Note:** This question paper contains two parts A and B

Part A is compulsory which carriers 25 marks and Answer all questions.

Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer FIVE Questions,

Choosing ONE Question from each SECTION and each Question carries 10 marks.

PART-A (25 Marks)

1) a)	What is the role of a computer in a crime.	[3M]
b)	What are the problems of computer forensics evidence?	[2M]
c)	What are artifacts?	[3M]
d)	List out the steps for processing computer evidence.	[2M]
e)	What is computer forensic validation?	[3M]
f)	How to validate forensic data?	[2M]
g)	What are the needs of computer forensic tools?	[2M]
h)	Discuss about email servers.	[3M]
i)	What is use of registers in windows?	[2M]
j)	What do you mean by encrypting a disc?	[3M]

PART – B (50 Marks)

SECTION - I

- 2) Explain briefly about
 - a. Role of backup in data recovery
 - b. Data recovery solution.

[10M]

(OR)

3) Explain about forensic services.

SECTION - II

- 4) What are the legal aspects of collection and preserving computer forensic evidence? [10M]
- 5) What are the practical considerations implementations for computer image verification and validation?

SECTION - III

- 6) a. Explain about how to secure a computer incident or a crime scene.
 - b. Write short notes on network forensic overview.

[10M]

(OR)

7) Explain the process of collecting evidences in private sector incident scenes.

SECTION - IV

- 8) a. What do you understand by mobile device forensics? Explain
 - b. Explain about specialized email forensic tools.

[10M]

(OR

9)Explain about investigating email crimes and violations.

SECTION - IV

- 10) Discuss about
 - a. Virtual Machines
 - b. MS-DOS startup taks.

[10M]

(OR)

- 11) Write short notes on
 - a. Microsoft File Structures.
 - b. Microsoft startup Tasks.

R15A0562 HUMAN COMPUTER INTERACTION

Code No: R15A0562

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

IV B. Tech I Semester, Model Question Paper-1

Human Computer Interaction

		(1	T)			
Roll No						

Time: 3 hours Max. Marks: 75

Note: This question paper contains two parts A and B

Part A is compulsory which carriers 25 marks and Answer all questions.

Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer FIVE Questions, Choosing ONE Question from each SECTION and each Question carries 10 marks.

1). a	Explain the benefits of good interface design?	[2M]
b	Explain the concept of Direct manipulation?	[3M]
С	Explain any 5 important Human characteristics in Design.	[2M]
d	Explain various guidelines for presenting information on screen.	[3M]
е	What are the various functions of menu?	[2M]
f	What are the guidelines for selecting the proper device-based controls?	[3M]
g	Explain different kinds of icons.	[2M]
h	Discuss the goals of website navigation.	[3M]
i	Distinguish between QWERTY and ABCDE style.	[2M]
j	What is speech digitization and generation?	[3M]
	PART-B (50 MARKS)	
	<u>SECTION-I</u>	
2	a. Compare a 1970's screen, a 1980's screen, and a 1990's and beyond screen.	[5M]
	b. Explain in details the benefits of Good Design.	[5M]
	OR	
3	a. Compare and contrast the graphical user interface and the web user interface.	[5M]
	b. Discuss the characteristics of the Web User Interface.	[5M]
	<u>SECTION-II</u>	
4	a. Discuss about the user's psychological characteristics in the design of a system.	[5M]
	b. Explain about Human Interaction Speed.	[5M]
	OR	
5	a. Compare and contrast direct and indirect methods of requirements analysis.	[5M]
	b. Explain various Design Standards or Style Guides.	[5M]
	SECTION-III	
6	a. Explain about organizing and ordering of screen elements.	[5M]
	b. Discuss the techniques user of visual emphasis of important elements on a screen.	[5M]
	OR	
7	 Explain various qualities which provide visually pleasing composition with examples for each quality. 	[5M]
	b. Explain Technological consideration in interface design.	[5M]

SECTION-IV

	<u>SECTION-IV</u>	
8	a. What are the various Components of a Window?	[5M]
	b. What are the guidelines for selecting the proper device-based control?	[5M]
	OR	
9	a. What are the guidelines for designing icons? What are the types of Machine	[5M]
	learning?	[5M]
	b. What are the various guidelines for presenting error messages on web?	
	SECTION-V	
10	a. Explain about the Features of user-interface building tools.	[5M]
	b. Explain the importance of keyboards, Function keys.	[5M]
	OR	
11	a. What is Speech digitization and Generation?	[5M]
	b. Compare and contrast the characteristics of various pointing devices.	[5M]
	,	

Code No: R15A0562

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)
IV B. Tech I Semester, Model Question Paper-2

Human Computer Interaction

		(1	T)			
Roll No						

Time: 3 hours Max. Marks: 75

Note: This question paper contains two parts A and B

Part A is compulsory which carriers 25 marks and Answer all questions.

Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer FIVE Questions, Choosing ONE Question from each SECTION and each Question carries 10 marks.

4.1	- I I I I I I I I I I I I I I I I I I I	for 43
1). a	Explain the design structure of 1990s screen.	[2M]
b	Discuss about the popularity of graphics.	[3M]
С	Explain about human interaction speed.	[3M]
d	What is meant by basic business functions?	[3M]
е	Define good screen design. What are the problems with poor design?	[2M]
f	Explain any 4 qualities which provide visually pleasing composition.	[3M]
g	Explain any 5 characteristics of Device-Based Controls.	[3M]
h	Discuss about different types of Messages.	[2M]
i	What are Direct-Control pointing devices?	[2M]
j	Discuss various Display Devices.	[2M]
	PART-B (50 MARKS)	
	<u>SECTION-I</u>	
2	a.Discuss the history of screen design.	[5M]
	b. Discuss the chronological history of GUI.	[5M]
	OR	
3	a.Explain the concept of Direct Manipulation.	[5M]
	b. Compare and contrast GUI versus Web page design.	[5M]
4	a.Explain about Human Interaction Speed.	[5M]
	b.Explain the user's mental model and system's conceptual model.	[5M]
	OR	
5	a. Explain briefly about the important human characteristics in design of a system.	
		[5M]
	b.Compare and contrast direct and indirect methods of requirements analysis.	[5M]
6	What is a Screen? What is the purpose of a screen?	[4M]
	Discuss the techniques user of visual emphasis of important elements on a screen.	[6M]
	OR	
7	a. Explain various qualities which provides visually pleasing composition with examples	[6M]
	, , , , , , , , , , , , , , , , , , , ,	

	for each quality.	
	b.Discuss various Types of Statistical Graphics.	[4M]
8	a. What are the guidelines for selecting the proper device-based control? Explain.	[6M]
	b. What are the various Components of a Window?	[4M]
	OR	
9	a. What is multimedia? Explain it briefly.	[5M]
	b.Explain the procedure for choosing colors in screen design.	[5M]
10	a.Explain the importance of Interface – Building Tools.	[5M]
	b. Explain the importance of keyboards, Function keys.	[5M]
	OR	
11	a. Explain about projectors, heads up displays helmet mounted displays.	[5M]
	b.Explain pointing devices in detail.	[5M]

Code No: **R15A0562**

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

IV B. Tech I Semester, Model Question Paper-3

Human Computer Interaction

		(1	T)			
Roll No						

Time: 3 hours Max. Marks: 75

Note: This question paper contains two parts A and B

Part A is compulsory which carriers 25 marks and Answer all questions.

Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer FIVE Questions, Choosing ONE Question from each SECTION and each Question carries 10 marks.

1). a	What is User Interface?	[2M]
b	What are the various problems with direct manipulation?	[3M]
С	Explain any 5 important Human characteristics in Design.	[2M]
d	Discuss about users knowledge and experience in the design of business system.	[3M]
е	What is the role of screen navigation and flow in developing good screen design?	[3M]
f	Explain three contents of menu.	[2M]
g	What is icon? Explain different kinds of icons?	[2M]
h	What are the guidelines for creating images?	[2M]
i	What is speech digitization and generation?	[3M]
j	Explain the features of QWERTY AND DVORAK LAYOUR.	[3M]
	PART-B (50 MARKS)	
	<u>SECTION-I</u>	
2	a. Discuss the history of screen design.	[6M]
	b. Discuss the impact of inefficient screen design.	[4M]
	OR	
3	a. Discuss in detail the importance of the user interface for success of Software.	[5M]
	b. Discuss about the data objects, container objects and device objects.	[5M]
4	a. What is meant by basic business functions? Discuss in detail the process of determining basic business functions.	[4M]
	 b. Discuss about the users psychological characteristics in the design of a system. OR 	[6M]
5	a. What is a Screen? What is the purpose of a screen?	[4M]
	b. Discuss various Types of Statistical Graphics.	[6M]
	a. What are the contents of Menus? Explain in detail.	[6M]
6	b. Explain various window operations.	[4M]
	OR	-
7	a. What is an icon? What are the kinds of icons? Explain in detail.	[6M]
	b. Explain various uses of Color.	[4M]

8	Explain Screen based and Device based controls in detail.	[10M]
9	OR Explain Components like text, messages, Icons and colors	[10M]
10	a. Explain about the Features of user-interface building tools.	[5M]
	b. Explain the importance of Interface – Building Tools.	[5M]
	OR	
11	a. What are the uses of video displays? Explain various video display devices in details.b. Compare and contrast the characteristics of various pointing devices.	[5M] [5M]

Code No: **R15A0562**

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India) IV B. Tech I Semester, Model Question Paper-4

Human Computer Interaction

Roll No			(1	1)			
	Roll No						

Time: 3 hours Max. Marks: 75

Note: This question paper contains two parts A and B

Part A is compulsory which carriers 25 marks and Answer all questions.

Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer FIVE Questions, Choosing ONE Question from each SECTION and each Question carries 10 marks.

1). a	What is the importance of Good design?	[2M]		
b	Discuss the characteristics of a Web Interface.	[3M]		
С	Explain the user's mental model and systems conceptual models.	[3M]		
d	Explain any 4 qualities which provide visually pleasing composition.	[2M]		
е	Discuss different types of menus.	[2M]		
f	Discuss about different types of Messages.	[3M]		
g	Explain about Grammars.	[2M]		
h	Discuss various Design tools for creating user interface.	[3M]		
i	What are the different features of user-interface-building tools?	[2M]		
j	What is speech digitization and generation?	[3M]		
	PART-B (50 MARKS)			
<u>SECTION-I</u>				
2	a. Compare a 1970's screen, a 1980's screen, and a 1990's and beyond screen.	[6M]		
	b. Explain in details the benefits of Good Design.	[4M]		
	OR			
3	a. Compare the print page design and web page design.	[5M]		
	b. Compare and contrast GUI versus Web page design.	[5M]		
4	a. Discuss about the user's physical characteristics in the design of a system.	[4M]		
	b. Explain about Human Interaction Speed	[6M]		
	OR			
5	What is meant by basic business functions? Discuss in detail the process of determining	[10M]		
	basic business functions.			
6	a. Explain the various guidelines for presenting information on screen.	[4M]		
	b. Discuss the techniques user of visual emphasis of important elements on a screen.	[6M]		
	OR			
7	a. Discuss the goals of website navigation.	[4M]		
	b. Explain the guidelines for displaying graphic components on screen	[6M]		

8	What are the guidelines for selecting the proper device-based control? Explain.	[10M]
	OR	
9	a. Explain about Words, Text, Window.	[5M]
	b. Explain the procedure for choosing colors in screen design.	[5M]
10	Explain pointing devices in detail.	[10M]
	OR	
11	Compare and contrast the characteristics of various pointing devices.	[10M]

R15A0563 MOBILE APPLICATION DEVELOPMENT

R15

Code No: R15A0563

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

IV B. Tech I Semester Examinations

Mobile Application Development

(INFORMATION TECHNOLOGY)

Time: 3 hours		1				N 4 -	D.4	larks:	75
	Roll No								

Note: This question paper contains two parts A and B

Part A is compulsory which carriers 25 marks and Answer all questions.

Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer FIVE Questions, Choosing ONE Question from each SECTION and each Question carries 10 marks.

PART-A (25 Marks)

- 1.a) What is setup box? [2]
 - b) Write about J2ME configuration. [3]
 - c) What is JAR and JAD files? [2]
 - d) List the layers of J2ME architecture. [3]
 - e) Describe form class. [2]
 - f) Create an interactive Gauge. [3]
 - g) List out JDBC Driver types. [2]
 - h) Write the steps to establish database connection in JDBC. [3]
 - i) List out different protocols to perform communication. [2]
 - j) Explain about Socket Connection. [3]

PART-B (50 Marks)

SECTION-I

- 2. a) Discuss about multi tier web services and write the role of J2ME in multi tier web service.[10]
 - b) Discuss about personal digital assistances. [5+5]

OR

3. Describe mobile radio networks detail. [10]

SECTION-II

4. What is Midlet Suite and explain the life cycle of Midlet in detail. [10]

OR

5. Develop Midlet application to create and manipulate an instance of String Item object. [10]

SECTION-III

6. Explain Item class in detail wit an example application. [10]

OF

7. Develop J2ME application to draw an arc and paint on Canvas. [10]

SECTION-IV

8. Explain record listener interface in detail with an example program. [10]

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9. Write a Java program to insert and delete rows using result set. [10]

SECTION-V

- 10. a) Explain the procedure to establish HTTP Connection to communicate with server.[10]
 - b) Write the code segment and JAD file to read the data from the web server. [5+5]

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11. Explain URL rewriting and HTTP session techniques in detail with an example. [10]

R15

Code No: R15A0563

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

IV B. Tech I Semester Examinations

Mobile Application Development

(INFORMATION TECHNOLOGY)

Time: 3 hours		 l	l		NA.) N	larks	 . 75
	Roll No							

Note: This question paper contains two parts A and B

Part A is compulsory which carriers 25 marks and Answer all questions.

Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer FIVE Questions, Choosing ONE Question from each SECTION and each Question carries 10 marks.

PART-A (25 Marks)

- 1.a) Explain about Cellular Digital Packet Data. [2]
 - b) Discuss about Personal Digital Assistants. [3]
 - c) Discuss about Event Handling. [2]
 - d) Write a short note on MIDLet programming. [3]
 - e) Mention about Screen Class. [2]
 - f) Explain about Exception Handling. [3]
 - g) How do you create and execute a SQL Query. [2]
 - h) Explain the process of connecting to a Database. [3]
 - i) What is a socket? [2]
 - j) How do you create a HTTP connection? [3]

PART-B (50 Marks)

SECTION-I

- 2.a) Discuss about wireless technology.
- b) Explain microwave technology. [5+5]

OR

- 3.a) Explain the inside of J2ME.
- b) Compare and contrast between J2ME and J2SE. [5+5]

SECTION-II

4. Discuss about J2ME best practices. [10]

OR

5.a) How a MIDLet program works with Internet? Explain.

b) Outline J2ME wireless Tool Kit, building and running a project using the Wireless Tool Kit. [5+5]

SECTION-III

- 6.a) Illustrate throwing a MIDLet State Change exception with an example program.
- b) Write a program to demonstrate alert Dialog box. [5+5]

OR

- 7.a) Discuss about detecting and processing key codes.
- b) Discuss about detecting and processing pointer events. [5+5]

SECTION-IV

- 8.a) Explain about transaction processing.
- b) Explain about different types of JOIN's with suitable examples. [5+5]

OR

- 9.a) Explain Callable statement.
- b) Discuss about scrollable result set with an example program. [5+5]

SECTION-V

- 10.a) Write a program to read and write to a socket.
- b) Explain communication management using HTTP commands. [5+5]

OR

11. How do you communicate with server using HTTP connection? Explain with suitable example program. [10]

R15

Code No: R15A0563

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

IV B. Tech I Semester Examinations

Mobile Application Development

(INFORMATION TECHNOLOGY)

	Roll No							
Time: 3 hours					Ma	ax. N	larks	! : 75

Note: This question paper contains two parts A and B

Part A is compulsory which carriers 25 marks and Answer all questions.

Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer FIVE Questions, Choosing ONE Question from each SECTION and each Question carries 10 marks.

PART-A (25 Marks)

- 1.a) What is setup box? [2]
 - b) Discuss about Personal Digital Assistants. [3]
 - c) What is JAR and JAD files? [2]
 - d) Write a short note on MIDLet programming. [3]
 - e) Describe form class. [2]
 - f) Explain about Exception Handling. [3]
 - g) List out JDBC Driver types. [2]
 - h) Write the steps to establish database connection in JDBC. [3]
 - i) List out different protocols to perform communication. [2]
 - j) How do you create a HTTP connection? [3]

PART-B (50 Marks)

SECTION-I

- 2. a) Discuss about wireless technology.[10]
 - b) Explain microwave technology. [5+5]

OR

3. Describe mobile radio networks detail. [10]

SECTION-II

4. State the J2ME applications [10]

OR

5. Develop Midlet application to create and manipulate an instance of String Item object. [10]

SECTION-III

6.a) Illustrate throwing a MIDLet State Change exception with an example program.

 \cap R

b) Write a program to demonstrate alert Dialog box. [5+5]

OR

7. Develop J2ME application to draw an arc and paint on Canvas. [10]

SECTION-IV

8. Explain transaction processing in detail. [10]

OR

9. State and Explain Android activity lifecycle [10]

SECTION-V

10. Explain the procedure to connect to the database.[10]

OR

11. State the understanding of SQLite Database [10]

R15A0570 APPLICATION PROGRAMMING

Code No: R17A0570

Model I

R15

Max. Marks: 75

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

IV B. Tech I Semester External Examinations 2019 Application Programming

(IT)										
Roll No										

Time: 3 hours Note: This question paper contains two parts A and B

Part A is compulsory which carriers 25 marks and Answer all questions.

Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer FIVE Questions,

Choosing ONE Question from each SECTION and each Question carries 10 marks.

PART-A (25 Marks)

	TITLE II (MO MILLEO)	
1). a	What is the .NET Framework?	[2M]
b	Write about the string literal in C#.	[3M]
c	What is implementation inheritance?	[2M]
d	Define operator overloading.	[3M]
e	List the advantages of stored procedure.	[2M]
f	What is the use of data set in ADO.NET?	[3M]
g	Define a web service? List few real-time web services.	[2M]
h	What is ASP.NET?	[3M]
i	What are the uses of assemblies?	[2M]
j	Define CLR and list down its responsibilities.	[3M]
	PART-B (50 MARKS)	
	SECTION-I	
2	Describe the architecture of .NET framework with neat diagram.	[10M]
	O.D.	
	OR	
3	a. Write a short note on mutable strings with example.	[5M]
	b. Explain in detail the different types of expressions used in C#.	[5M]
	SECTION-II	
4	a. What do you mean by delegates? State their use with an example.	[5M]
•	b. Describe the process of handing events through delegates.	
	or Beserve the process of humaning events through delegates.	[5M]
	OR	[01.2]
5	Describe the concepts of indexers with example it.	[10M]
	SECTION-III	
6	What is dialog box? What are the different types of dialog	[10M]
	Box?	

OR

7	a. Brief the steps involved in development of SDI application.	[5M]
	b. What are MDI forms? Explain how to create MDI Form with example.	[5M]
	SECTION-IV	
8	Describe how to read and write the streamed XML in .NET?	[10M]
	OR	
9	a. List the different object models associated with ASP.NET	[5M]
	b. Describe the validator controls and their applications in ASP.NET	[5M]
	SECTION-V	
10	Describe the .Net framework architecture with neat diagram.	[10M]
	OR	
11	Describe some of the security concerns when calling unmanaged code.	[10M]

Code No: R17A0570 Model II

R15

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)
IV B. Tech I Semester External Examinations 2019
Application Programming

Roll No

Time: 3 hours Max. Marks: 75

Note: This question paper contains two parts A and B

Part A is compulsory which carriers 25 marks and Answer all questions.

Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer FIVE Questions,

Choosing ONE Question from each SECTION and each Question carries 10 marks.

PART-A (25 Marks)

1). a	What are the steps to compile in NET?	[2M]
b	Differentiate Const. and read only.	[3M]
c	List the restrictions in Thread Pool.	[2M]
d	Give the uses of sealed class.	[3M]
e	Differentiate model and modeless Dialog.	[2M]
f	What is SDI and MDI application?	[3M]
g	Write down the different types of value mode that can hold session state in web.config.	[2M]

h	Define XML. Give example.	[3M]
i	State the two distinct ways of expressing version information of assemblies and compare each with the other.	[2M]
j	List and compare the two predefined .Net remoting channels.	[3M]
	PART-B (50 MARKS) SECTION-I	
2	Describe the architecture of .NET framework with neat diagram. Describe the architecture of .NET framework with neat diagram.	[10M]
	OR	
3	a. Explain the salient features of .NET framework.	[5M]
	b. Explain the important characteristics of C# in detail. SECTION-II	[5M]
4	Consider a student class with feet and inches as attributes which describes the height of the student. Write a C# program to overload the + operator and to find the average of N students.	[10M]
	OR	
5	Explain constructors and its types and how to add a constructor to the building class.	[10M]
6	 a. Explain in detail the process of creating menus in a windows-based application. b. Develop a window based application with at least 5 controls and event 	[5M]
	handling methods.	[5M]
	OR	
7	Explain how to build the windows application forms.	[10M]
	SECTION-IV	
8	What are transactions? What are the ACID properties? Explain in detail for fund transferring with code.	[10M]
9	OR a. Explain how data sets are passed as parameter and return from a web service. Give an example code. b. Explain XML schema definition and validation with example.	[5M] [5M]
10	a. Explain in detail about marshaling. b. Explain about types of remoting.	[5M] [5M]
	OR	- -

Code No: R17A0570

Model III

R15

Max. Marks: 75

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

IV B. Tech I Semester External Examinations 2019 Application Programming

(IT)										
Roll No										

Time: 3 hours Note: This question paper contains two parts A and B

Part A is compulsory which carriers 25 marks and Answer all questions.

Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer FIVE Questions,

Choosing ONE Question from each SECTION and each Question carries 10 marks.

PART-A (25 Marks)

1). a	Why C# is called type safe language?	[2M]
b	Can an array hold objects of varying types? Explain how.	[3M]
c	Give an example for virtual method and polymorphism.	[2M]
d	What support is provided by c# for events?	[3M]
e	What are intrinsic attributes?	[2M]
f	Differentiate model and modeless Dialog.	[3M]
g	State the phases of a transaction.	[2M]
h	Give notes on web config.	[3M]
i	What are private and shared assemblies?	[2M]
j	Describe metadata and specify the method through which Meta data are inspected.	[3M]
	PART-B (50 MARKS) <u>SECTION-I</u>	
2	Develop a program to generate the first 10 terms of the Fibonacci series.	[10M]
	OR	
3	Create a C# code that reads a list of names in random order using an array and displays them in alphabetical order. (15)	[10M]
	SECTION-II	
4	a. What are abstract classes and how to implement their interfaces?	[5M]
	b. Brief note on operations of thread with examples.	[5M]
	O.D.	
_	OR	[4 0) #1
5	How the Exception are handled in C#.	[10M]
	SECTION III	
	SECTION-III	[10] #3
6	Describe in short the following controls. Develop an application with each control. i) Checkbox(4)	[10M]

- ii) Radio button(4) iii) Group box (5)

OR

7	a.	What are the steps to link SQL server with ADO.NET	[5M]
	b.	What are the steps to be followed to create the complete data table.	[5M]
		SECTION-IV	
8	Differe	ntiate between client-side and server-side validations in Web pages. Explain in	[10M]
	detail h	ow this can be done.	
		OR	
9	a.	What is the difference between SQL notification and SQL invalidation?	[5M]
	b.	Explain with example that handles SQL notification and SQL invalidation.	[5M]
		SECTION-V	
10	Explai	n in detail the aspects of providing security to .Net applications.	[10M]
		OR	
11	a.	Write a web service using SOAP to convert Celsius to Fahrenheit.	[5M]
	b.	Develop an application which requires simple and compound marshalling,	
		Explain how these are performed.	[5M]
		Explain now these are performed.	
