

(Autonomous Institution – UGC, Govt. of India)

(Affiliated to JNTU, Hyderabad, Approved by AICTE -- ISO 9001:2015 Certified)

Accredited by NBA & NAAC – 'A' Grade

National Ranking by NIRF - Rank band (151-300), MHRD, Govt. of India

B.TECH III YEAR II SEMESTER REGULAR END EXAMINATIONS, APRIL/MAY - 2024 CLOUD COMPUTING

(COMMON TO CSE, CSE-DS, CSE-AI&ML, IT)

[Time: 3 Hours] [Max. Marks: 70]

PART - A

 $(5 \times 2 = 10M)$

Note: 1. This Part consists of 8 QUESTIONS.

2. Answer any 5 questions. Each question carries 2 Marks.

1	A	Define cloud computing in one sentence.	2M	BTL1
	В	What are the fundamental concepts of Optical Computing and its	2M	BTL1
		advantages		
	С	What are the primary motivations behind the adoption of Cloud	2M	BTL1
		Computing?		
	D	List any three of the five essential characteristics of Cloud Computing.	2M	BTL2
	Е	What components make up the anatomy of the Cloud? Provide three	2M	BTL1
		examples.		
	F	List three approaches for Cloud migration and provide a detail of each.	2M	BTL2
	G	Differentiate between Infrastructure as a Service (IaaS), Platform as a	2M	BTL3
		Service (PaaS), and Software as a Service (SaaS).		
	Н	What are the cloud models offered by IBM, and what distinguishes IBM	2M	BTL1
		Smart Cloud from other cloud platforms?		

PART - B

 $(5 \times 12 = 60M)$

Note:

- 1. This Part consists of 10 QUESTIONS
- 2. Answer any 1 question from each Section. Each question carries 12Marks.
- 3. Illustrate your answers with NEAT sketches wherever necessary.

SECTION - I

2.A	Discuss the advantages and disadvantages of Distributed Computing	6M	BTL3	
	compared to Cluster Computing.			
2.B	Explain the key differences between Grid Computing and Cloud	6M	BTL2	
	Computing, and provide examples of scenarios where each would be more			
	suitable.			
(OR)				
3.A	Describe the fundamental principles of Quantum Computing and its	6M	BTL3	
	potential impact on various industries, such as cryptography, optimization,			
	and drug discovery.			
3.B Discuss the current state-of-the-art research and challenges in the field of			BTL3	
	Optical Computing.			
	SECTION - II			

4.A	Discuss the motivations driving the adoption of Cloud Computing,	6M	BTL3
	highlighting factors such as scalability, cost-efficiency, and flexibility.		
4.B	Describe the five essential characteristics of Cloud Computing as defined	6M	BTL3

)E: 20	005PE08 R20		SET -
	by the National Institute of Standards and Technology (NIST), and explain		
	the significance of each characteristic.		
I	(OR)		
5.A	Illustrate how Cloud Computing can be perceived as a service-based model,	6M	BTL5
	emphasizing the consumption of computing resources as services over the		
5 D	Evaluate the four primary Cloud deployment models (public private	6M	BTL4
5.B	Explore the four primary Cloud deployment models (public, private, hybrid, and community), detailing their respective features, advantages, and	OIVI	D1L4
	use cases.		
	SECTION - III		
6.A	Explain the concept of Cloud Computing architecture, including its layers	6M	BTL2
0.71	and components.	0111	DIEZ
6.B	Explore various approaches for Cloud migration, such as rehosting,	6M	BTL5
	refactoring, rearchitecting, rebuilding, and replacing, highlighting their		
	benefits and drawbacks.		
'	(OR)		
7.A	Explore the importance of network connectivity in Cloud Computing and	6M	BTL5
	how it impacts the performance and reliability of cloud-based applications.		
7.B	Discuss the management of Cloud applications, including deployment,	6M	BTL3
	monitoring, scaling, and maintenance.		
	SECTION – IV		
8.A	Examine the pros and cons of adopting IaaS for businesses, highlighting its	6M	BTL5
	benefits and potential drawbacks.		
8.B	Summarize notable PaaS providers, highlighting their unique features and	6M	BTL3
	strengths in the market.		
	(OR)		
9.A	Explain the concept of Software as a Service (SaaS) and describe its	6M	BTL2
	characteristics, including accessibility and subscription-based pricing.		
9.B	Examine the evolving landscape of cloud service models and predict future	6M	BTL5
	trends in cloud computing service offerings.		
	SECTION – V		
10.A	Compare and contrast the cloud service offerings of EMC, specifically	6M	BTL5
	focusing on EMC IT and the Captiva Cloud Toolkit.		
10.B	Discuss the capabilities and benefits of Google App Engine as a platform	6M	BTL3
	for developing and deploying applications.		
<u>u</u>	(OR)		
11.A	Evaluate the services provided by Salesforce, specifically Sales Cloud and	6M	BTL4
	Service Cloud, with a focus on Knowledge as a Service.		
11.B	Explore the features and benefits of the Aneka Platform offered by	6M	BTL5
	Manjrasoft in the context of cloud computing.		

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B.TECH III YEAR II SEMESTER REGULAR END EXAMINATIONS, APRIL/MAY - 2024

DATA WAREHOUSING AND DATA MINING

(COMMON TO CSE, IT)

[Time: 3 Hours] [Max. Marks: 70]

PART - A

 $(5 \times 2 = 10M)$

Note: 1. This Part consists of 8 QUESTIONS.

2. Answer any 5 questions. Each question carries 2 Marks.

1	A	List out some of the characteristics of Data Warehouse.	2M	BTL3
	В	Differentiate fully addictive and non addictive measures in data	2M	BTL1
		warehouse.		
	C	Define Clustering.	2M	BTL2
	D	Give the advantages and disadvantages of Discretization.	2M	BTL3
	Е	Identify the algorithm used for web usage mining.	2M	BTL2
	F	Mention the parameters to be considered for evaluating the accuracy of	2M	BTL2
		the classifier.		
	G	Name some of the types of data encountered in cluster analysis.	2M	BTL2
	Н	What is meant by outlier analysis?	2M	BTL2

PART - B

 $(5 \times 12 = 60M)$

Note:

- 1. This Part consists of 10 QUESTIONS
- 2. Answer any 1 question from each Section. Each question carries 12Marks.
- 3. Illustrate your answers with NEAT sketches wherever necessary.

SECTION - I

2.A	Elaborate the data warehouse architecture with its components.	6M	BTL4
2.B	Describe the types of schema structure used in data warehousing.	6M	BTL3
	(OR)		
3.A	Give the characteristics of Fact- Less-Facts.	6M	BTL3
3.B	Describe the key components and architecture of an OLAP server.	6M	BTL3

SECTION - II

4.A	Analyze the different types of data mining systems and identify the suitable system for specific needs and objectives.	6M	BTL5	
4.B	Show how the integration between a data mining system and a database can be achieved.	6M	BTL3	
(OD)				

(OR)

5.A	Is pre-processing necessary before modeling or analysis tasks? Justify	6M	BTL3
	your answer.		
5.B	Analyze how the integrity and usefulness of the data are maintained	6M	BTL5
	during the data reduction process.		

SECTION - III

	D : 1	SECTION - III	(3.5	Dest 1
6.A	1	rithm for discovering frequent itemsets. Apply	6M	BTL4
	_ =	following data set. Use 0.3 for the minimum		
	support value.			
	Trans ID	Item purchased		
	101	strawberry, litchi, oranges		
	102	strawberry, butterfruit		
	103	butterfruit, vanilla		
	104	strawberry, litchi, oranges		
	105	banana, oranges		
	106	Banana		
	107	banana, butterfruit		
	108	strawberry, litchi, apple, oranges		
	109	apple, vanilla		
	110	strawberry, litchi		
6.B	Write a note on graph Par	titioning Algorithms.	6M	BTL2
F		(OR)		_
7.A	A database has five transa	actions. Let min sup=60% and min conf=80%.	6M	BTL4
	TransactionI	D Items_bought		
	T1	$\{M,O,N,K,E,Y\}$		
	T2	$\{D,O,N,K,E,Y\}$		
	T3	$\{M,A,K,E\}$		
	T4	$\{M,U,C,K,Y\}$		
	T5	$\{C,O,O,K,I,E\}$		
	_ = = =	for the above training data set assuming support		
	of count as 3.			
7.B	Write a note on Closed Fr	equent Item Set with an example.	6M	BTL2
		077 CTT 0 1 2 1 1 1		
		SECTION – IV	T	
8.A	Explain the Supervised Le	earning Algorithms available for classification.	6M	BTL2
8.B	Describe the methods use	d to express attribute test conditions.	6M	BTL3
		(OR)	01/1	
9.A	Explain the CAPT algorit	hm used for classification with example.	(3.1	BTL2
	-	-	6M	
9.B	Describe how KNN algor	ithm works with its advantages.	6M	BTL3
		SECTION – V		
10.A	Write an overview of clus	ter categorization methods with example.	6M	BTL2
10.B	Differentiate DBSCAN a		6M	BTL4
10.6	Differentiate DDSCAN at	id OF FICS.	6M	DIL4
F		(OR)		
11.A	Write a note on Gaussian	Mixture Models.	6M	BTL2
11.B	Compare and contrast clu	stering based classification and proximity based	6M	BTL3
11.15	classification methods.	stering subset simportreation and proximity subset	3111	2110
	The solution in the tite do.		1 1	





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B.TECH III YEAR II SEMESTER REGULAR END EXAMINATIONS, APRIL/MAY-2024 MOBILE COMPUTING

(COMMON TO CSE, CSE-CS, CSE-DS, IT)

[Time: 3 Hours] [Max. Marks: 70]

PART - A

 $(5 \times 2 = 10M)$

Note: 1. This Part consists of 8 QUESTIONS

2. Answer any 5 questions. Each question carries 2 Marks

1	A	What is multipath propagation	2M	BTL1
	В	What is frequency hopping	2M	BTL1
	C	List the GSM services	2M	BTL2
	D	Write the applications of satellite systems	2M	BTL1
	Е	Define MANET	2M	BTL1
	F	What is selective retransmission	2M	BTL1
	G	Define atomic transaction	2M	BTL1
	Н	What is SyncML	2M	BTL1

PART - B

 $(5 \times 12 = 60M)$

Note:

- 1. This Part consists of 10 QUESTIONS
- 2. Answer any 1 question from each Section. Each question carries 12Marks.
- 3. Illustrate your answers with NEAT sketches wherever necessary.

SECTION - I

2.A	Explain the solution of hidden and exposed terminal problems	6M	BTL2
2.B	Compare and Contrast SDMA,FDMA,TDMA and CDMA	6M	BTL4

(OR)

3.A	Explain the mobile computing architecture with neat sketch	6M	BTL2
3.B	Explain the Limitations of Mobile and Handheld Devices.	6M	BTL2

SECTION - II

4.	Explain the GSM architecture with neat sketch	12M	BTL2	
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(OR)

5.A	Discuss about different types of handover	6M	BTL3
5.B	Compare and Contrast HSPA+, HSUPA and HSDPA+	6M	BTL4

CODE: 2005PE04 R20 SET - 2

SECTION - III

	SECTION - III				
6.A	Discuss about HYPERLAN	6M	BTL3		
6.B	Compare and Contrast Infrared vs radio transmission	6M	BTL4		
(OR)					
7.A	Explain the procedure in DHCP	6M	BTL2		
7.B	Compare and Contrast traditional IP and Mobile IP	6M	BTL4		
	SECTION – IV		•		
8.	Explain the following (a) Indirect TCP (b) S-TCP (c)M-TCP	12M	BTL2		
	(OR)				
9.A	Explain the cache invalidation mechanisms	6M	BTL2		
9.B	Compare and Contrast push based and pull based mechanisms	6M	BTL4		
	SECTION – V				
10.A	Explain the significance of file systems in mobile application development	6M	BTL2		
10.B	Compare and contrast the Wireless Application Protocol (WAP) version 1.x with WAP 2.0.	6M	BTL4		

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12M

BTL4

Compare and contrast major mobile platforms such as Palm OS, Windows

11.

CE, and Symbian OS



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B.TECH III YEAR II SEMESTER END EXAMINATIONS, APRIL/MAY - 2024 PROFESSIONAL ENGLISH

(COMMON TO CSE, IT)

[Time: 3 Hours] [Max. Marks: 70]

PART - A

 $(5 \times 2 = 10M)$

Note: 1. This Part consists of 8 QUESTIONS.

2. Answer any 5 questions. Each question carries 2 Marks

1	A	How do you use 'among and between'? Give two examples	2M	BTL1
	В	Expand the acronyms of 'RAM' and 'CAD'	2M	BTL1
	C	Use the following idioms in your own sentences	2M	BTL2
		i) beat the heat ii) once in a blue moon		
	D	Change the following sentences into indirect speech: (i) She said, "I may	2M	BTL2
		buy a dress." (ii) He said to me, "Have you read the articles?"		
	Е	How do you make a diphthong?	2M	BTL3
	F	What are nasal sounds in English?	2M	BTL4
	G	Mention any three main parts of a letter.	2M	BTL2
	Н	Find out the difference between resume and C.V	2M	BTL1

PART - B

 $(5 \times 12 = 60M)$

Note:

- 1. This Part consists of 10 QUESTIONS
- 2. Answer any 1 question from each Section. Each question carries 12Marks.
- 3. Illustrate your answers with NEAT sketches wherever necessary.

SESSION - I

			DEDDIO				
2.A	Use the right vo	erb form from	the verbs given	in brackets.		6M	BTL3
	a)Much of the	e food	_ (waste).				
	b) All the me	mbers of the o	committee ar	rived now.(Have)			
	c) you s	sure what you	said is true? (be)				
	d) Indu	(show	y) you how to ope	erate it.			
	e) Harsha fel	ll asleep while	he (watcl	n) TV.			
2.B	Frame SIX me	eaningful sent	ences on the give	en pattern.		6M	BTL5
	Subject	Verb	Preposition	Prepositional			
				Object			
	The hunter	aimed	at	the bird.			
			(OR))			
3.A	Complete the fo	llowing senter	nces by using app	propriate articles ar	d	6M	BTL3

3.A Complete the following sentences by using appropriate articles and prepositions.

i) ostrich is a native of South Africa
ii) Here is heaven for lunatics.
iii)This is unfortunate incident.
iv) Pranavi heard the news____ a friend.
v) Rohit came ____ disguise. .
vi) Sometimes we do not have control ____ what we do.

DDE:	2000HS02 R20			SET - 2
3.B	Reframe the following sentences as directed in the brackets. i) You cannot gain admission without a trick. (Rewrite the sentence by using 'admission' as a Verb) ii) The prisoner confessed his guilt. (by using Adjective of 'confessed') iii) I believe that he will come tomorrow. (by using Noun of 'believe') iv) Kamal is buying a new laptop. (into Passive Voice) v) The article was edited by her. (into Active Voice) vi) Have you completed the thesis ?(into Passive Voice)		6M	BTL3
	SESSION - II			
4.A	Explain various techniques to improve listening?	6M		BTL3
4.B	How can effective listening skills improve communication?	6M		BTL4
	(OR)			
5.A	What are the ways to overcome barriers to listening?	6M		BTL2
5.B	How important is accent in English?	6M		BTL3
	SESSION - III			
6.A	Write notes in brief on rhythm, stress and intonation with examples	6M		BTL2
6.B	Prepare and draft a speech on <i>India of my dreams</i> .	6M		BTL3
0.12		01/1		D12 5
7.4	(OR)	() (DTI 0
7.A	List out Do's and Don'ts in Group Discussion.	6M		BTL2
7.B	Prepare a mock G.D with your five friends on the topic 'One nation and on election?'	6M		BTL3
	SESSION – IV			
8.A	What are the aims and objectives of reading comprehension?	6M		BTL2
8.B	Read the passage given below and answer the questions that follow: If a person suddenly encounters any terrible danger, the change of nature one undergoes is equally great. Sometimes fear numbs our senses. Like animals, one stands still, powerless to move a step in fright or to lift a hand in defense of our lives, and sometimes one is seized with panic, and again, acts more like the inferior animals than rational beings. On the other hand, frequently in cases of sudden extreme peril, which cannot be escaped by flight, and must be instantly faced, even the most timid men at once as if by miracle, become possessed of the necessary courage, sharp quick apprehension and swift decision. This is a miracle very common in nature. Man and the inferior animals alike, when confronted with almost certain death 'gather resolution from despair' but there can really be no trace of such debilitating a feeling in the person fighting, or prepared to fight for dear life. At such times the mind is clearer than it has ever been; the nerves are steel, there is nothing felt but a wonderful strength and daring. Looking back at certain perilous moments in my own life, I remember them with a kind of joy, not that there was any joyful excitement then, but because they broadened my horizon, lifted me for a time above myself. Questions:	6M		BTL5

i) Look at the flock of bees around the hive!

iv) She always hits me without any reason.

iii) I prefer chocolate milkshake than vanilla ice cream.

vi) Unless you do not try, you will never succeed.

ii) Have you ever being to Kashmir?

v) None but me turned up.



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B.TECH III YEAR II SEMESTER REGULAR END EXAMINATIONS, APRIL/MAY - 2024 WEB TECHNOLOGIES

(COMMON TO CSE,CSE-AIML,CSE-CS,CSE-DS,CSE-IOT, IT)

[Time: 3 Hours] [Max. Marks: 70]

PART - A

 $(5 \times 2 = 10M)$

Note: 1. This Part consists of 8 QUESTIONS.

2. Answer any 5 questions. Each question carries 2 Marks.

1	A	What are the different types of lists in HTML?	2M	BTL1
	В	What is the use of CSS and explain the types of CSS?	2M	BTL1
	С	What is the default port for HTTP and HTTPS?	2M	BTL1
	D	What is regular Expression in java script?	2M	BTL1
	Е	Explain the lifecycle servlet Write a java script program to perform the	2M	BTL2
		validation process in an application program.?	Z1 V1	
	F	List the different types of statements in JDBC.	2M	BTL2
	G	Write a syntax to Reversing Array Element Order with example?	2M	BTL1
	Н	What is XML DOM Document?	2M	BTL1

PART - B

 $(5 \times 12 = 60M)$

Note:

- 1. This Part consists of 10 QUESTIONS
- 2. Answer any 1 question from each Section. Each question carries 12Marks.
- 3. Illustrate your answers with NEAT sketches wherever necessary.

SECTION - I

2.A	Discuss about tags related to table and different types of lists with sample code.	6M	BTL4
2.B	Explain the architecture and features of apache server.	6M	BTL2

(OR)

	3.A	Explain the three types of CSS styles?	6M	BTL2
	3.B	Differentiate "class" and "id" in CSS? Show the use of external CSS with example.	6M	BTL4
L		example.		

SECTION - II

4.A	Write a java script program to perform the validation process in an	6M	BTL2
	application program.		
4.B	Write a script that asks the user to enter two numbers and outputs text that	6M	BTL3
	displays the sum, product, difference and quotient of two numbers.		

	(OK)		
5.A	Explain the importance of Document Object Model (DOM)	6M	BTL2
5.B	Create an XML file for an employee (EMPID, EMPNAME, DOJ,	6M	BTL4
	SALARY). Create a DTD and a Schema for this xml file.		

SECTION - III

6.A	Discuss the advantages of a servlet over CGI. Explain how to read and	6M	BTL2
	initialize the parameters.		
6.B	Describe cookies and sessions in servlets. Illustrate this with example	6M	BTL4
	programs.		

(OR)

7.A	What is JDBC? Explain the JDBC architecture.	6M	BTL2
7.B	Explain various types of JDBC drivers?	6M	BTL2

SECTION-IV

8	8.A	Summarize the list of Directives? Explain about JSP directives.	6M	BTL3	
8	8.B	Write about the implicit objects in JSP?	6M	BTL4	

(OR)

9.A	Define Java Server Pages? What are the elements of a JSP page?	6M	BTL2
	Summarize about each element with examples.		
9.B	Explain about session tracking in different ways of maintaining sessions in	6M	BTL2
	JSP		

SECTION-V

10.A	Define Cookie and Session. Compare Cookie and Session with example	6M	BTL2
	programs in PHP.		
10.B	Write a PHP program to validate the form input.	6M	BTL5

(OR)

11.A	Illustrate the working of multiple forms in PHP?	6M	BTL3
11.B	Write a Program in PHP with MySQL to enter student information	6M	BTL5

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