

#### CMR COLLEGE OF ENGINEERING & TECHNOLOGY (UGC AUTONOMOUS)

B.Tech VII Semester Supplementary Examinations April/May-2023
Course Name: AIR POLLUTION & CONTROL

		Common for EEE, ME, ECE, CSE & IT)	Ma- M1 70
	Date: 29.04.2023 FN	Time: 3 hours	Max.Marks: 70
		(Note: Assume suitable data if necessary) PART-A	
		Answer all TEN questions (Compulsory)	
		Each question carries TWO marks.	10x2=20M
١.	Define Air Pollution.		2 M
2.	Broadly classify the air p	ollutants.	2 M
3.	Define turbulence.		2 M
ł.	What is called temperature	re lapse rate?	2 M
5.	Differentiate Indoor air p	ollution from others.	2 M
<b>5.</b>	What is stack air pollutio	n?	2 M
7.	List out the various contr	ol technique.	2 M
3.	Write a note on scrubbers	3.	2 M
).	Discuss any one global e	pisode as environmental issue.	2 M
0.	List out noise standards.		2 M
	Answer the following Fa	PART-B ach question carries TEN Marks.	5x10=50M
	inover the lone wing. Le	ten question curres 121 (Marias.	SAIO SONI
11.A	a). Discuss in detail abou	at the characterization of air pollutants.	10M
		OR	
1. F	3). Explain the effects of	air pollution on health.	10M
2. /	A). Discuss in detail abou	at Wind rose diagram.	10M
		OR	
12. I	3). Explain about plume	behavior in detail.	10M
13. /	Discuss about Sampli	ing of particulate pollutants.	10M
	i). Discuss acout sumpn	OR	1010
13. I	B). Explain about Gaussi		10M
14	A). Discuss in detail abou	at sottling shambors	100
14. <i>A</i>	A). Discuss in detail abou		10M
14. E	3). Explain about cyclon	OR	100
4. 1	5). Explain about cyclon	e separators.	10M
15. A	A). How to control air po	llution due to automobiles?	10M
		OR	
15. E	3). Explain about enviror	nmental laws and acts.	10M

R18

Course Code: A30237



### CMR COLLEGE OF ENGINEERING & TECHNOLOGY

(UGC AUTONOMOUS)

B.Tech VII Semester Supplementary Examinations April/May-2023

Co	ourse Name: HVDC TRANSMISSION		
	(Electrical & Electronics Engineering) Time: 3 hours	Max.Marks	: 70
Da	(Note: Assume suitable data if necessary) PART-A Answer all TEN questions (Compulsory) Each question carries TWO marks.	10x2=2	
			2 M
	tate the advantages in DC transmission.		2 M 2 M
	Differentiate between 6-pulse and 12-pulse converters.		2 M
	What are the special features of converters in HVDC transmission?		2 M
	Define constant extinction angle and constant ignition angle control of HVDC.		2 M
	With a neat sketch, explain about DC network.		2 M
	Write the equation of DC Converter Control.		2 M
	Discuss the function of surge arrester.		2 M
	What are the converter faults in HVDC system?		2 M
	What are the adverse effects of harmonics?		2 M
10. V	What is the effect of pulse number on harmonics?		Z 1VI
A	PART-B nswer the following. Each question carries TEN Marks.	5x10=	50M
11.A).	With neat sketches explain the different kinds of D.C. links available a merits and demerits.  OR	nd list out its	10M
11 D)		ngle of 60 and	10M
11. B)	. Draw the waveforms and explain 6 Pulse converters for the conduction at 120 degrees for the R-load.	igic of oo and	
12. A)	. Discuss equidistant pulse firing angle control scheme with its relative merits  OR	and demerits	10M
12. B)	. Explain how Reactive power controlled during transients.		10M
13. A	. Explain the principles of DC link control.		10M
13.11	OR		
13. B)	. Distinguish between simultaneous method and sequential method wi diagrams in power flow analysis.	th appropriate	10M
14. A)	Discuss the operation of surge arrestors for overvoltage protection of HVDO  OR	C systems.	10M
14. B)	<ul><li>i) Explain the basic principles of over current protection.</li><li>ii) Explain corona effect in DC Lines.</li></ul>		5M 5M
15. A	i) Explain the causes of harmonic generation in HVDC and effects on the sy ii) What are characteristic and non-characteristic harmonics?	/stem.	4M 6M
	OR		
15. B	Derive an equation for harmonic voltage and current for single tuned filter.		10M



(UGC AUTONOMOUS)

(	B.Tech VII Semester Supplementary Examinations April/May- Course Name: SWITCHING MODE POWER SUPPLY	2023
<u>I</u>	(Electrical & Electronics Engineering) Date: 02.05.2023 FN Time: 3 hours	Max.Marks: 70
	(Note: Assume suitable data if necessary) PART-A Answer all TEN questions (Compulsory) Each question carries TWO marks.	10x2=20M
1.	Explain the principle of volt second balance in inductors.	2 M
	What are the applications of DC power supplies?	2 M
	What are the types of DC-DC Converter?	2 M
4.	What are the types of SMPS?	2 M
5.	List the various classifications of resonant converters.	2 M
	What is meant by zero voltage switching?	
	Draw the diagram of Half bridge converter.	2 M
	What is the function of fly back converter?	2 M
	What are the disadvantages of on line UPS?	2 M
	What are the application of off line UPS?	2 M
	are approximent of our line of S.	2 M
<u>A</u>	PART-B  Inswer the following. Each question carries TEN Marks.  What is the necessity for the SMPS? Draw a block diagram for SMPS and operation.	5x10=50M explain its 10M
	OR	
11. B).	. Explain the design procedure of transformer for Power electronics applications.	. 10M
12. A).	power suppry.	5M
	ii) List the advantages of switched mode power supplies.	5M
12. B).	OR Discuss the operation of possibilities and the second of the second o	
12. 11).	Discuss the operation of parallel resonant dc-dc converter with the help of circu	it diagram. 10M
13. A).	<ul><li>i) Zero current switching resonant converters</li><li>ii) Zero voltage switching resonant converters</li></ul>	5M
		5M
13. B).	Write short notes on the following:	
13. 13).	i) L type ZCS resonant converter	
	ii) M type ZCS resonant converter	5M 5M
		(P.T.O)

14. A).	Explain the following: i) Half bridge converter	
	ii) Full bridge converter	5M
		5M
	OR	
14. B).	Explain the following:	
	i) fly back converter	23.4
	ii) forward converter	3M
	iii) push pull converter	3M
		4M
15. A).	What is filter and explain different types of filters used in SMPS.	10M
	OR	
15. B).	Describe series and parallel resonant filters with examples.	10M



(UGC AUTONOMOUS)
B.Tech VII Semester Supplementary Examinations April/May-2023

	Course Name: HIGH VOLTAGE ENGINEERING	
	(Electrical & Electronics Engineering) Date: 04.05.2023 FN Time: 3 hours	May Marks: 70
1. 2. 3.	Chote: Assume suitable data if necessary) PART-A Answer all TEN questions (Compulsory) Each question carries TWO marks.  What is break down voltage? Illustrate thermal break down. Plan the high voltage AC generation for testing.	Max.Marks: 70  10x2=20M  2 M  2 M  2 M
4.	Extend the use of impulse voltage.	2 M
5.	Interpret the partial discharge measurement.	2 M
6.	Outline use of CRO to measure high voltage impulse.	2 M
7. 8.	Analyze the charge accumulation in clouds.	2 M
9.	Outline the uses of surge modifier.  How isolators are test to confirm its electrical strength.	2 M
10.	List the safety precautions in HV laboratories.	2 M 2 M
4	PART-B Answer the following. Each question carries TEN Marks.	5x10=50M
11.A	<ul> <li>Explain in detail about distribution and control of surge voltages.</li> <li>OR</li> </ul>	10M
11. B	). Explain the difference between photo-ionization and photo electric emission.	10M
12. A	a). Explain the generating circuits for high voltage AC.  OR	10M
12. B	). Explain impulse currents generating circuits.	10M
13. A	.). Explain the measurement techniques for high direct current.  OR	10M
13. B	). Explain the measurement of dielectric constant and loss factor.	10M
14. A	). How over voltages occurred due to switching surges?  OR	10M
14. B	). What are the principles of insulation coordination in case of HV systems?	10M
15. A	). How surge arresters are tested?  OR	10M
15. B)	<ul> <li>i). Explain the terms:</li> <li>i). Withstand voltage</li> <li>ii). Flash over voltage</li> <li>iii). 50% Flash over voltage.</li> </ul>	10M

H.T No: **R18** Course Code: A30242 CMR COLLEGE OF ENGINEERING & TECHNOLOGY CMR (UGC AUTONOMOUS) B.Tech VII Semester Supplementary Examinations April/May-2023 Course Name: UTILIZATION OF ELECTRICAL ENERGY (Electrical & Electronics Engineering) Date: 04.05.2023 FN Time: 3 hours Max.Marks: 70 (Note: Assume suitable data if necessary) **PART-A** Answer all TEN questions (Compulsory) Each question carries TWO marks. 10x2 = 20MList the advantages and disadvantages of electric drive over other drives. 2 M Give some applications of induction heating. 2 M What are the factors governing the selection of motors? 2 M On what factors dielectric losses depend. 2 M What are the advantages of coiled coil filament gas filled lamp? 2 M Define Illumination. 2 M What is Lamp Efficiency? 2 M What are the disadvantages of diesel electric traction? 2 M Define Dead weight, Accelerating weight, Adhesive weight. 2 M Explain train resistance referred to traction. 2 M **PART-B** Answer the following. Each question carries TEN Marks. 5x10=50MWhat is meant by load equalization? Derive the expression for instantaneous motor 11.A). 10M torque, M.O.I of the fly wheel and the motor slip. State any assumptions made. OR DC compound motor is selected for the operation of a lift. The operating cycle is repeated 10M continuously throughout the day. Load going up for 1 minute: 7.5hp, loading period at the top 2 minutes: 5hp, load going down 1 minute: 60 hp, loading period at the bottom 3 minutes: 5hp. Select the smallest size of the motor suitable for the above load cycle. With a neat sketch explain the working principle of core type and coreless type induction 12. A). 10M furnace. OR

A slab of insulating material 150 cm<sup>2</sup> in area and 1cm thick is to be heated by dielectric 10M heating. The power required is 400 W at 30 MHz Material has relative permittivity of 5 and p.f. of 0.05. Absolute permittivity is 8.854×10-12 F/m. Determine the necessary voltage.

13. A). Explain the construction and working of a mercury vapor lamp.

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10M

OR

A hall 30 m long and 15 m wide with a ceiling height of 5 metres is to be provided with a 10M general illumination of 120 lumens/m2. Taking a coefficient of utilization of 0.5 and depreciation factor of 1.42, determine the number of fluorescent tubes required, their spacing, mounting height and total wattage. Taking luminous efficiency of florescent tube as 40 lumens/watt for 80 w tube.

(P.T.O..)

14. A). Discuss the main features of various train services. What type of train services 10M corresponds to trapezoidal and quadrilateral speed time curves? A train has a schedule speed of 40 kmph between two stops which are 4 km apart. 10M Determine the crest speed over the run if duration of stops is 60 sec and acceleration and retardation are both equal to 2 km/hr. Assume trapezoidal speed time curve. Show that if the speed-time curves are similar, Specific Energy Consumption are equal. 15. A). 10M OR An electric train has an average speed of 42 km/h on a level track between stops 1.4 km 15. B). 10M apart. It is accelerated at 1.7 km/h/s and is braked at 3.3 km/h/s. Assuming tractive resistance as 50 N/t. allowing 10% for rotational inertia, and efficiency to motors 85%.

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Estimate the specific energy consumption.



(UGC AUTONOMOUS)
B.Tech VII Semester Supplementary Examinations April/May-2023

Co	ourse Name: FLEXIBLE AC TRANSMISSION SYSTEM DEVICE	ES
Da	(Electrical & Electronics Engineering) tte: 06.05.2023 FN Time: 3 hours	Max.Marks: 70
	(Note: Assume suitable data if necessary) PART-A Answer all TEN questions (Compulsory) Each question carries TWO marks.	10x2=20M
1. V	/hat is a FACTS controller?	2 M
2. W	That are the advantages of FACTS controllers?	2 M
	efine Pulse width modulation.	2 M
4. D	raw the circuit diagram of three phase full bride VSC.	2 M
5. D	efine transient stability.	2 M
6. W	That are the advantages of Static VAR compensators?	2 M
7. D	raw the static V-I characteristics of SVC.	2 M
8. W	hat are the main components in STATCOM?	2 M
9. L	ist different series compensators.	2 M
10. W	hat are the applications of TCSC?	2 M
An	PART-B swer the following. Each question carries TEN Marks.	5x10=50M
11.A).	What are main types of FACTS controllers? With neat schematic diagram in brief.	ns, explain them 10M
	OR	
11. B).	Explain in detail various factors limiting the transmission line loading capa	ability. 10M
12. A).	What is pulse number of a converter? Draw and discuss the transformer 12 pulse and 24 pulse operation of a converter.	connections for 10N
	OR	
12. B).	Compare current source converters with voltage source converters.	10M
13. A).	What are the objectives of the static shunt compensation? With the suppodiagrams, discuss the mid-point voltage regulation of a line.	ort of the phasor 10M
12 D)	OR  Explain the demains of neuron accillation with static last	
13. B).	Explain the damping of power oscillation with static shunt compensation.	10M

(P.T.O..)

14. A	Explain the basic construction, principle of operation and VI characteristics of STATCOM.	10M
14. B)	OR  Compare the performance of SVC and STATCOM from the point of view of transient stability improvement.	10M
15. A)	stability and power oscillation damping in the power system. Draw the relevant diagrams.	10M
15. B)	OR  Explain, with a neat sketch and waveforms, the GCSC type of series controller.	10M



(UGC AUTONOMOUS)

B.Tech VII Semester Supplementary Examinations April/May-2023

Course Name: RELIABILITY ENGINEERING

(Electrical & Electronics Engineering)

Date: 06.05.2023 FN Time: 3 hours	Max.Marks: 70
(Note: Assume suitable data if nece PART-A Answer all TEN questions (Compu	essary) ulsory)
	2 M
	2 M
Derive an expression for Reliability of Series System.	2 M
Define reliability function F(t).	2 M
Define Partially redundant system.	2 M
Write short notes on State space diagram.	2 M
Write short notes on reduce event tree.	2 M
What are the applications of Markovian models in reliability analysis	
Write short notes on frequency balance approach.	2 M
	Chote: Assume suitable data if necessary PART-A  Answer all TEN questions (Compute Each question carries TWO mark)  What is the effect of Preventive maintenance on Reliability?  What is the difference between hazard rate and failure rate?  Derive an expression for Reliability of Series System.  Define reliability function F(t).  Define Partially redundant system.  Write short notes on State space diagram.  Write short notes on reduce event tree.  What are the applications of Markovian models in reliability analysis.

# PART-B Answer the following. Each question carries TEN Marks. 5x10=50M

11.A). Derive an expression for Standard Deviation of Binomial Distribution.

20171

2 M

OR

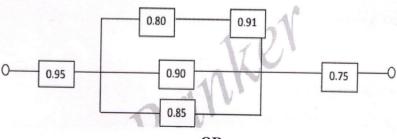
11. B). Explain the concept of bath tub curve with a neat diagram.

What are the Applications of Cutset Approach?

10M

10M

12. A). Distinguish with block diagrams parallel series and mixed parallel series systems and write down appropriate formula in each case.



OR

12. B). Assume that six units can be arranged in three series and parallel configuration. Draw their block diagram of arrangement and estimate reliability of the system if each has reliability of 0.85.

(P.T.O..)

13. A).	Tabulate the relationship between f(t), F(t), R(t) and h(t).	10M
	OR	
13. B).	Explain the following terms:	10M
	(i) Reliability. (ii) MTTR. (iii) MTTF. (iv) MTBF.	
14. A).	Explain two state Markov process for calculation of steady state probabilities.	10M
	OR	
14. B).	Explain one state Markov process for calculation of steady state probabilities.	10M
15. A).	Develop the expressions for basic probability indices of a system in which all the components must fail for the system failure.	10M
	OR	
15. B).	Derive the expressions for frequency of encountering states in One Component Repairable Model.	10M

H.T No: R18 Course Code: A30554



# CMR COLLEGE OF ENGINEERING & TECHNOLOGY (UGC AUTONOMOUS)

B.Tech VII Semester Supplementary Examinations April/May-2023

	Date: 08.05.2023 FN (Common for EEE, ME & ECE) Time: 3 hours  Max	
	(Note: Assume suitable data if necessary)	Marks: 70
	PART-A	
	Answer all TEN questions (Compulsory)	
		10x2=20M
1.	Use of JVM.	2 M
2.	What are the differnt possibilities of creating of objects?	2 M
3.	Use of "final" keyword in Java.	2 M
4.	Types of Inheritance concept.	2 M
5.	What is checked Exception?	2 M
6.	Explain different Exception names which occur in general.	2 M
7.	What are the methods used for start and execute the Thread?	2 M
8.	What is the purpose of the sleep() method in Thread?	2 M
9.	Which packages need to import to work with Files in Java?	2 M
10.	Discuss different Streams in java files with sample.	2 M
1	PART-B Answer the following. Each question carries TEN Marks.	-10 5034
		5x10=50M
11.A)	<ol> <li>Explain about Constructor Overloading and Method OverLoading with example.</li> </ol>	10M
11 D	OR	
11. B	). What are the different access specifiers in Java, illustrate with example?	10M
12. A	). Build a matrix multiplication program using Two-Dimensional Arrays.	10M
	OR	TOIVI
12. B)	). Test about Command line arguments, find the highest value among the 3 command arguments.	line 10M
13. A)	). Sample examine for creation of packages, accessing a package and hiding the classes.	10M
	OR	TOIVI
13. B)	What is nested try with example? Role of the "finally" key word Exception handling?	10M
14. A)	Thread is useful than Process?	10M
14. B)	OR Evaloin Why Throad Land	
17. D)	Explain, Why Thread sleep() and yield() methods are static?	10M
	Will all the second sec	
15. A)	. What is the difference between BufferedReader and Scanner in Java with example?	1014
15. A)	. What is the difference between BufferedReader and Scanner in Java with example?  OR	10M

H.T No: **R18** Course Code: A30531 CMR COLLEGE OF ENGINEERING & TECHNOLOGY CMR (UGC AUTONOMOUS) **B.Tech VII Semester Supplementary Examinations April/May-2023** Course Name: PYTHON PROGRAMMING (Common for all Branches) Date: 08.05.2023 FN Time: 3 hours Max.Marks: 70 (Note: Assume suitable data if necessary) PART-A Answer all TEN questions (Compulsory) Each question carries TWO marks. 10x2 = 20MList the basic data types available in Python with examples. 2 M Mention any two limitations of Python. 2 M Define recursion with an example. 2 M Compare lists and array. 2 M How will you update list items? Give one example. 2 M Can functions return tuples? If yes give example. 2 M What are instance variables, and what role does the name self play in the context of a class 2 M definition? Explain what the \_\_str\_\_ method does and why it is a useful method to include in a class 2 M Why does the blur function need to work with a copy of the original image? 2 M What happens when you enter a number with a decimal point into an Integer Field? 2 M **PART-B** Answer the following. Each question carries TEN Marks. 5x10=50M11.A). Write about different types of python operators with example scripts. 10M 11. B). Sketch the structures of interpreter and complier. Details the difference between them. 10M Explain how python works in Interactive mode and script mode with examples. 12. A). Write a program to determine the factorial of a given number with and without the use of 10M recursion. OR 12. B). Write the syntax and explain the concept of 10M recursive function with an example. (i) (ii) lambda function with an example. 13. A). Write a function that takes a number as an input parameter and returns the corresponding 10M text in words, for example, on input 452, the function should return 'Four Five Two'. Use a dictionary for mapping digits to their string representation.

OR

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13. B).

Describe the following:

(iii) Updating the list

(ii) Accessing values in the lists

(iv) Deleting the list elements.

(i) Creating the list

(P.T.O..)

10M

14. A).	1) Write a short notes on Special Class methods, with the help of an example explain the significance of the _init_() method.	5M
	ii) Write a short notes on different built in attributes associated with a class.	5M
	OR	
14. B).	Write a menu driven program that keeps record of books and journals available in a library.	10M
15. A).	Write a line of code that adds a Float Field to a window, at position (1, 1) in the grid, with an initial value of 0.0, a width of 15, and a precision of 2.	10M
	OR	
15. B).	Explain the turtle graphics with two dimensional shapes.	10M

H.T No: R18 Course Code: A30160



# CMR COLLEGE OF ENGINEERING & TECHNOLOGY

(UGC AUTONOMOUS)

B.Tech VII Semester Supplementary Examinations April/May-2023

	Course Name: DISASTER MANAGEMENT & MITIGATION	
	(Common for EEE, ME, ECE CSE & IT) Date: 08.05.2023 FN Time: 3 hours  Max M	larks: 70
	(Note: Assume suitable data if necessary)	tarks: /U
	PART-A Answer all TEN questions (Compulsory)	
	Fook anadi	)x2=20M
1.		AZ-201VI
2.	State different types of the disasters.	2 M
3.	Define landscape approach.	2 M
	Name the types of endogenous hazards.	2 M
4.	Write on man induced disaster.	2 M
5.	List three major causes of earth quakes occurred in India.	2 M
6.	Briefly write on the occurrence of landslides.	2 M
7.	Differentiate between cold wave and heat wave.	2 M
8.	List the impacts of floods in India.	2 M
9.	Write about the emergency stage of disaster management.	2 M
10.	Give an insight on mitigation techniques of any one type of disaster.	2 M
	PART-B	
	Answer the following. Each question carries TEN Marks. 5x1	10=50M
11.A		
	OR	10M
11. B		
		10M
12. A	Differentiate between man induced hazards and natural hazards.	10M
	OR	TOW
12. B	). Describe in detail about endogenous and exogenous hazards.	10M
13. A	). Discuss the environmental impacts of volcanic eruptions.	
		10M
13. B	OR	
13. 15	). Explain the distribution of earthquakes and methods to reduce effects of the earthquake.	10M
14. A)	). Write the methods of conservation measures for soil erosion.	101.6
	OR	10M
14. B)		10M
15. A)	of all engineer to reduce the effects of different disasters occurred in	
	India.	n 10M
15 D	OR	
15. B)	<ul> <li>Describe in detail the emerging approaches of disaster management and recommend some remedies to control the disasters.</li> </ul>	e 10M



# CMR COLLEGE OF ENGINEERING & TECHNOLOGY (UGC AUTONOMOUS)

B.Tech VII Semester Supplementary Examinations April/May-2023 Course Name: INTRODUCTION DATABASE MANAGEMENT SYSTEMS

Course Name: INTRODUCTION DATABASE MANAGEMENT SYSTEMS (Common for EEE, ME & ECE)			
Da	nte: 08.05.2023 FN Time: 3 hours	Max.Marks: 70	
	(Note: Assume suitable data if necessary) PART-A Answer all TEN questions (Compulsory)		
	Each question carries TWO marks.	10x2=20M	
1. Id	lentify the Difference between Traditional file Systems and DBMS.	2 M	
2. C	lassify the Aggregation Operations.	2 M	
3. D	viscuss the Referential Integrity.	2 M	
4. Ir	nterpret the Advantages and Disadvantages of VIEWS.	2 M	
5. O	outline the Purpose of ANY and ALL in SQL.	2 M	
6. H	ow to Sort Results in SQL?	2 M	
7. D	etermine the Control Statements in Advanced SQL.	2 M	
8. Id	lentify the need of Cursors in SQL.	2 M	
9. E	laborate the Purpose of Normalization.	2 M	
10. In	terview the Rule to be followed in 3NF.	2 M	
	PART-B		
An	swer the following. Each question carries TEN Marks.	5x10=50M	
11.A).	i) Analyze the Unary Operations.	5M	
	ii) Classify the Set Operations.	5M	
	OR		
11. B).	i) Outline the SPARC Architecture.	5M	
	ii) List the Join Operations.	5M	
12. A).	Illustrate the Entry Integrity, Domain Constraints and General Constraints in SQI	. 10M	
	OR	J. 101VI	
12. B).	i) Design the VIEW Materialization.	5M	
	ii) Evaluate the Restrictions on VIEWS.	5M	
13. A).	i) How to handle the Aggregate Functions?	5M	
	ii) Write Sub queries in SQL.	5M	
	OR		
13. B).	Outline how to Handle Multi-table Queries in SQL.	10M	
14. A).	How to create functions in SQL explain with an example?		
	OR	10M	
14. B).	What is a trigger? How to create it? Discuss various types of triggers.	10M	
15. A).			
15. A.J.	Show the criteria how Normalization Supports Database Design.	10M	
15. B).	OR Elaborate about 2NF, 3NF and BCNF with suitable examples.		
10. 10).	2. With suitable examples.	10M	



(UGC AUTONOMOUS)
B.Tech VII Semester Supplementary Examinations April/May-2023

	Course Name: CLOUD COMPUTING	
	(Common for EEE & CSE) Date: 09.05,2023 FN Time: 3 hours Max M	
	(Note: Assume suitable data if necessary) PART-A Answer all TEN questions (Compulsory)	1arks: 70 0x2=20M
1. 2.	Define High Performance Computing. What is Grid Computing?	2 M 2 M
<ul><li>3.</li><li>4.</li></ul>	Define Cloud Computing.  List the characteristics of Cloud computing.	2 M 2 M
<ul><li>5.</li><li>6.</li><li>7.</li></ul>	Define Multitenancy.  Compare Private and public cloud access networking.  Define Infrastructure as a Service.	2 M 2 M 2 M
8. 9.	What are the Characteristics of Paas? What are the tools for Google Cloud Storage?	2 M 2 M 2 M
10.	PART-B	2 M
	Answer the following. Each question carries TEN Marks.  5x	x10=50M
11	A). Illustrate in detail about parallel and distributed computing.  OR	10M
11.	B). Discuss in detail about Quantum and Optical computing.	10M
12.	A). Explain the Need and Motivation of Cloud computing.  OR	10M
12.	B). Describe any two cloud deployment model in detail.	10M
	A). Explain Cloud Architecture in detail.  OR	10M
13.	B). Describe several approaches of cloud migration.	10M
14.	A). Explain in detail about Cloud service models.  OR	10M
14.	B). Elaborate on cloud service models that emerged after the introduction of cloud computing.	oud 10M
15.	A). Discuss in detail Amazon web services.  OR	10M
15.	B). Explain the Overview of Aneka.	10M