CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)
B.Tech VII Semester Regular/Supplementary Examinations December-2022
Course Name: AIR POLLUTION & CONTROL
(Common for EEE, MECH, ECE, CSE & IT)

Date: 08.12.2022 AN | 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.	Define Inversion.	2 M
2.	Give any four examples for aerosols.	2 M
3.	Write a note on Mixing height.	2 M
4.	Discuss the terms wind direction & speed.	2 M
5.	List out the difficulties encountered in sampling.	2 M
6.	What is called mass spectrometric analysis?	2 M
7.	Define efficiency of separating devices.	2 M
8.	Write a note on dust trap.	2 M
9.	Discuss exhaust emission.	2 M
10.	List any four functions of state pollution control board.	2 M

PART-B
Answer the following. Each question carries TEN Marks.

5x10=50M

11.A).	Explain about Primary and Secondary air pollutants.	10M
	OR	
11. B).	Summarize the influences of hydrogen fluride & hydrogen chloride as air pollutants.	10M
12. A).	Briefly explain about estimation of plume rise.	10M
	OR	
12. B).	Elaborate secondary meteorological parameters that influence air pollution.	10M
13. A).	Write a detailed note on Gaussian dispersion Models.	10M
	OR	
13. B).	Explain about Adsorbers & Condensers– the sampling devices.	10M
14. A).	Elaborate about mechanical scrubbers.	10M
	OR	
14. B).	Summarize about Electrostatic Precipitator.	10M
15. A).	Explain the significance of air pollution control area.	10M
	OR	
15. B).	Brief about Environmental (Protection) Act 1986.	10M

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CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)
B.Tech VII Semester Regular/Supplementary Examinations December-2022

Course Name: HVDC TRANSMISSION

(Electrical & Electronics Engineering)

Date: 10.12.2022 AN   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.	List out the applications of HVDC.	2 M
2.	What is the pulse number?	2 M
3.	List the two basic firing angle control schemes.	2 M
4.	List the various terminal equipment used in converter station.	2 M
5.	Write short notes on principle of DC link control.	2 M
6.	With a neat sketch, explain about DC network.	2 M
7.	What are the reasons for over voltages in HVDC systems?	2 M
8.	List out some methods, which can be used for over current protection.	2 M
9.	What are the adverse affects of harmonics produced by the HVDC systems?	2 M
10.	What are the advantages of Single tuned filters?	2 M

PART-B
Answer the following. Each question carries TEN Marks.

5x10=50M

11.A). Make a comparison between HVAC and HVDC transmission.   10M

OR

11. B). Explain the analysis of Graetz circuit and waveforms for overlap angle is 60 degrees.   10M

12. A). Explain in detail the significance of constant extinction angle control.   10M

OR

12. B). What do you understand from the term reactive power? Explain the causes of reactive power absorbed by the HVDC converter substation.   10M

13. A). Write short notes on:
i) Modelling of HVDC links.   5M
ii) P.U. system for DC quantities.   5M

OR

13. B). Discuss in detail the sequential method for the solution of the AC/DC load flow.   10M

14. A). Explain briefly about converter faults.   10M

OR

14. B). Write short notes on:
i) Audible noise, ii) Space charge field, iii) Corona effects on DC lines and iv) Radio interference.   10M

(P.T.O..)

15. A). Explain the objectives in designing the size and branches of harmonic filters and dc   10M
harmonic filters in a HVDC substation.

OR

15. B). What are the various types of filters that are employed in HVDC converter station?   10M
Discuss them in detail.

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CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)
B.Tech VII Semester Regular/Supplementary Examinations December-2022
Course Name: SWITCHED MODE POWER SUPPLY
(Electrical & Electronics Engineering)

Date: 10.12.2022 AN   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.	Which type of capacitor is used for SMPS?	2 M
2.	Explain the principle of volt second balance in inductors.	2 M
3.	What are the types of SMPS?	2 M
4.	What are the types of DC-DC Converter?	2 M
5.	Define resonant converters.	2 M
6.	What are the types of resonant converters?	2 M
7.	Draw the diagram of full bridge converter.	2 M
8.	What is the function of forward converter?	2 M
9.	What are the applications of online UPS?	2 M
10.	What are the disadvantages of on line UPS?	2 M

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

11.A).	Explain the design procedure of inductor for Power electronics applications.	10M
	OR	
11. B).	Obtain the expression of area product for forward converter.	10M
12. A).	Discuss the operation of series resonant dc-dc converter with the help of circuit diagram	10M
	OR	
12. B).	What is the necessity for the SMPS? Draw a block diagram for SMPS and explain its operation.	10M
13. A).	i) List the comparisons between ZCS and ZVS resonant converters.	5M
	ii) Explain the operation of two quadrant ZVS resonant converter.	5M
	OR	
13. B).	Compare Isolated and non-isolated switched mode converters.	10M
14. A).	Explain the operation of fly back converters, push pull converter and list the advantages.	10M
	OR	
14. B).	Draw the circuit diagram and explain the operation of a full bridge push pull converter and draw the load current and load voltage waveform.	10M
15. A).	Describe Power line disturbances with examples.	10M
	OR	
15. B).	Elaborate different types of filters used to reduce ripples in SMPS.	10M

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CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)
B.Tech VII Semester Regular/Supplementary Examinations December-2022

Course Name: HGH VOLTAGE ENGINEERING
(Electrical & Electronics Engineering)

Date: 13.12.2022 AN   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.	What are the properties of gaseous dielectric materials?	2 M
2.	Interpret composite dielectric material.	2 M
3.	Identify the function of rectifier to generate high voltage DC.	2 M
4.	Illustrate the type of impulse current generating circuits.	2 M
5.	Define peak voltage for testing.	2 M
6.	Outline process of measuring the dielectric constant.	2 M
7.	Identify the charge centers in the clouds.	2 M
8.	Outline the uses of surge diverters.	2 M
9.	How the bushings are test to confirms its electrical strength?	2 M
10.	Distinguish indoor and outdoor HV testing laboratories.	2 M

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

11.A).	How is the electric field intensity/electric stress controlled?	10M
	OR	
11. B).	Compare the field distribution methods.	10M
12. A).	Explain the generating circuits for high voltage DC.	10M
	OR	
12. B).	Explain the ac currents generating circuits.	10M
13. A).	Explain the measurement techniques for impulse voltage.	10M
	OR	
13. B).	Explain the partial discharge measurement in dielectric materials.	10M
14. A).	Explain the natural causes of over voltages.	10M
	OR	
14. B).	List the types of surge diverters and explain any one in detail.	10M
15. A).	How the insulation of cables is tested?	10M
	OR	
15. B).	Explain briefly the impulse testing of a power transformer.	10M

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CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)
B.Tech VII Semester Regular/Supplementary Examinations December-2022
Course Name: UTILIZATION OF ELECTRICAL ENERGY
(Electrical & Electronics Engineering)

Date: 13.12.2022 AN   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. List the advantages and disadvantages of electric drive over other drives.   2 M
2. What is mean by Load Equalization?   2 M
3. Classify the methods of electric heating.   2 M
4. What are the defects in Electric welding?   2 M
5. Why CFL and LED lamps are becoming more popular now-a-days? Explain technically?   2 M
6. Write the requirements of good lighting.   2 M
7. Write the advantages and disadvantages of electric traction.   2 M
8. Why dc series motor is ideally used for traction purpose?   2 M
9. Define (a) Average speed, (b) crest speed.   2 M
10. Define acceleration and retardation.   2 M

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

11.A).   i) What is mean by "Individual drive" and "Group drive" explains their relative merits and demerits?   5M

ii) Deduce the necessary expression for the temperature rise of an electric machine.   5M

OR

11. B).   Explain about the different speed torque characteristics of different machines and give their utility in selection for Industrial loads.   10M

12. A).   Explain electric arc welding and gas welding with fundamentals.   10M

OR

12. B).   Explain in brief how heating is done in the following cases: 10M
i) Resistance heating, ii) Induction heating and iii) Dielectric heating

13. A).   i) Describe the construction, principle and operation of sodium vapour lamp.   5M
ii) Compare fluorescent and filament lamps on basis of quality of light, capital and running costs.   5M

OR

13. B).   i) State and explain laws of Illumination.   5M
ii) A minimum illumination of 100 lumens/m² is required in the factory shed of 60 m x 15 m. calculate the number, the location and wattage of the units to be used. Assume that the depreciation factor is 0.76, coefficient of utilization is 0.54 and efficiency of the lamp units is 20 lumens/ watt.   5M

(P.T.O..)

14. A). i) Draw and explain trapezoidal speed-time curve for suburban service   5M

ii) A mail is to be run between two stations 5 km apart at an average speed of 50 km/hr. If   5M
the maximum speed is to be limited to 70 km/hr acceleration to 2 km/hr/sec, braking
retardation to 4 km/hr/sec and coasting retardation to 0.1 km/hr/sec. Determine the speed
at the end of coasting period and braking period.

OR

14. B). Explain clearly how Rheostatic and Regenerative braking used for D.C series motors with   10M
neat circuit diagram.

15. A). i) Derive the expression for specific energy output using simplified speed-time curves   5M

ii) An electric train has an average speed of 42 kmph on a level track between stops   5M
1400 m apart. It is accelerated at 1.7 kmph/s and is braked at 3 kmph/s. Estimate the
energy consumption at the axle of the train per tonne-km. Take tractive resistance
constant at 50 N per ton and allow 10% for rotational inertia.

OR

15. B). i) Write a short note on specific energy consumption.   4M

ii) Derive the expression for tractive effort for propulsion of a train on level track.   6M

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CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)
B.Tech VII Semester Regular/Supplementary Examinations December-2022
Course Name: FLEXIBLE AC TRANSMISSION SYSTEM DEVICES
(Electrical & Electronics Engineering)

Date: 15.12.2022 AN	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. What are different basic types of FACTS controllers?   2 M
2. Write any two limiting factors which influence the loading capability.   2 M
3. What is pulse number of a converter?   2 M
4. Write any two differences between VSC and CSC.   2 M
5. What are the advantages of shunt compensation?   2 M
6. Define Voltage droop.   2 M
7. Draw the static V-I characteristics of STATCOM.   2 M
8. What is the difference between SVC and STATCOM?   2 M
9. What are the applications of TCSC?   2 M
10. What are the objectives of series compensation?   2 M

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

11.A). Discuss the benefits of FACTs controllers and why electrical transmission systems are interconnected?   10M

OR

11. B). Explain power flow and dynamic stability considerations of a Transmission Interconnection.   10M

12. A). Explain in detail working principle of three-phase full wave bridge converter operation with neat wave forms.   10M

OR

12. B). Explain various means employed in practice for mitigating the harmonics using pulse width modulation and transformer connections in bridge converter operation.   10M

13. A). Explain, with the help of neat circuit diagram, variable impedance type static var generators, TCR and TSR. Draw VI characteristics of each of them.   10M

OR

13. B). Discuss the working of hybrid VAR generators.   10M

(P.T.O..)

14. A). Using a general schematic diagram, explain the regulation slope, transfer function and dynamic performance of SVC and STATCOM control in detail.   10M

<div align="center">OR</div>

14. B). Define transient stability. Explain transient stability enhancement with STATCOM.   10M

15. A). With neat schematic diagrams, explain the operation and applications of GTO thyristor controlled series capacitor (GCSC).   10M

<div align="center">OR</div>

15. B). Analyze the capability of TCSC in damping the oscillations and improving transient stability of power system.   10M

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CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)
B.Tech VII Semester Regular/Supplementary Examinations December-2022
Course Name: RELIABILITY ENGINEERING
(Electrical & Electronics Engineering)

Date: 15.12.2022 AN   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.	Illustrate the Properties of Binomial Distribution.	2 M
2.	What is the effect of Preventive maintenance on Reliability?	2 M
3.	Derive an expression for Reliability of Parallel System.	2 M
4.	Define the reliability.	2 M
5.	Define reliability function R(t).	2 M
6.	Write short notes on MTTF.	2 M
7.	Write a short notes on absorbing state.	2 M
8.	Define event tree with one example.	2 M
9.	Classify network reduction techniques	2 M
10.	Define redundant system.	2 M

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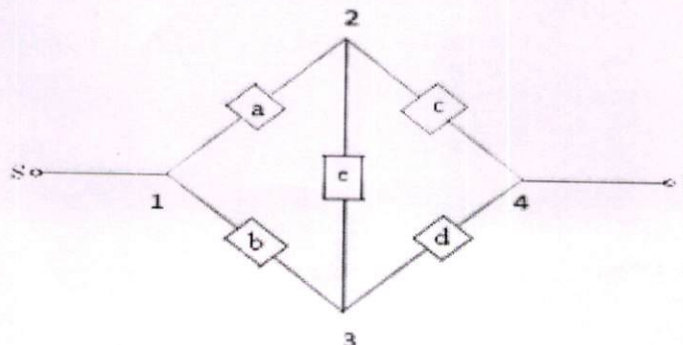### Answer the following. Each question carries TEN Marks.   5x10=50M

11.A). Explain the binomial distribution and derive the standard deviation of binomial distribution.   10M

OR

11. B). Deduce the expression for reliability function in terms of Hazard rate.   10M

12. A). Draw the Reduced event tree for the network shown in Fig. and hence deduce Paths and Cut sets.   10M

OR

12. B). Derive the reliability of parallel and series systems.   10M

(P.T.O..)

13. A). Derive an expression for MTTF of Parallel System.   10M

OR

13. B). Derive the relation between F(t), R(t) and H(t).   10M

14. A). Explain two state Markov process for calculation of steady state probabilities.   10M

OR

14. B). Evaluate time dependent probabilities of One Component Repairable model using Tree   10M
diagram.

15. A). Explain frequency duration concept.   10M

OR

15. B). Explain Common Mode Failures with its state diagrams.   10M

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CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)
B.Tech VII Semester Regular/Supplementary Examinations December-2022
Course Name: JAVA PROGRAMMING
(Common for MECH, EEE & ECE)

Date: 17.12.2022 AN	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.	List out Java Essentials.	2 M
2.	Simplify Type conversion.	2 M
3.	Illustrate the Command Line Arguments.	2 M
4.	What are the uses of Super keyword?	2 M
5.	Summarize the Wrapper class.	2 M
6.	List of Exception handling techniques.	2 M
7.	Define daemon thread.	2 M
8.	What is Synchronization?	2 M
9.	Elaborate the Scanner class.	2 M
10.	How to use BufferedInputStream class?	2 M

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

11.A).	Briefly explain the features of java. Make a Java program that determines whether a given integer is even or odd.	10M

OR

11. B).	Define Constructor. Discuss the various types of constructors in java programming.	10M

12. A).	What are the different types of inheritance? Give an example to illustrate how to utilise the Super keyword in inheritance.	10M

OR

12. B).	Write examples of various array types. Create a Java program to determine multiplication of two matrices.	10M

13. A).	Classify the String and StringBuffer classes. Explain methods of String class with suitable example program.	10M

OR

13. B).	What is exception handling? How multiple exceptions are caught? Write a java program to demonstrate the use of user defined exception.	10M

14. A).	Explain the thread priorities. Demonstrate with the help of example that how we set priorities in threads.	10M

OR

14. B).	Define a Thread. Describe the thread's life cycle with a neat diagram.	10M

(P.T.O..)

15. A).   Write a Java program that will read records from the file and copy one file to another file.   10M

OR

15. B).   Write short notes on:
      i)   FileInputStream
                                5M
      ii)   FileOutputStream
                                5M

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CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)
B.Tech VII Semester Regular/Supplementary Examinations December-2022
Course Name: PYTHON PROGRAMMING
(Common for CIVIL, EEE, MECH, ECE & CSE)

Date: 17.12.2022 AN   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.	What is indentation?	2 M
2.	What operators does python support?	2 M
3.	What is Chained Conditional statement? Give Example.	2 M
4.	Point out the difference between recursive and iterative technique.	2 M
5.	Describe List Slicing with example.	2 M
6.	How a tuple is iterated? Explain with an example?	2 M
7.	How can you copy an object in Python? Illustrate with an example?	2 M
8.	How will you check if a class is a child of another class?	2 M
9.	Compare Terminal-based user interfaces and GUIs.	2 M
10.	How to create Label Widget in Python?	2 M

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

11.A). Summarize various operators, built-in functions and standard library modules that deals with Python's numeric type.   10M

OR

11. B). What is the purpose of else clause for a loop? Explain how else works with while and for loops, with examples.   10M

12. A). Explain about different types of arguments in Python. Write a function to generate cubes of numbers over time.   10M

OR

12. B). Explain the file built-in functions and methods with clear syntax, description and illustration.   10M

13. A). i) Demonstrate how to create and print a 3-dimensional matrix with lists.   5M
ii) Write a Python program that counts the number of occurrences of a letter in a string, using dictionaries.   5M

OR

13. B). Give a comparison between lists, tuples, dictionaries and sets.   10M

(P.T.O..)

14. A). Explain how to implement different types of inheritance in Python with example.   10M

OR

14. B). Describe how the arithmetic operators can be overloaded to work with a new class of   10M
numbers.

15. A). Develop a Python program that creates a GUI with a textbox, Ok button and Quit button.   10M
On clicking Ok, the text entered in textbox is to be printed in Python shell; on clicking
Quit, the program should terminate.

OR

15. B). Explain the Turtle Graphics Basic commands and drawing different shapes on screen with   10M
example.

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CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)
B.Tech VII Semester Regular/Supplementary Examinations December-2022
Course Name: DISASTER MANAGEMENT & MITIGATION
(Common for EEE, MECH, ECE, CSE & IT)

Date: 17.12.2022 AN	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.	Define environmental hazard.	2 M
2.	Mention about the approaches related to human ecology.	2 M
3.	Give examples of Man induced hazards.	2 M
4.	Differentiate Endogenous and Exogenous hazards.	2 M
5.	State the hazardous effects of volcanoes.	2 M
6.	Draw different forms of lightning.	2 M
7.	List out the monitoring systems used for tracing the path of cyclones	2 M
8.	Identify the Flood hazard status in India	2 M
9.	Define the term Rehabilitation.	2 M
10.	Write a short note on an emergency stage in disaster management.	2 M

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

11.A).	i) Distinguish between Environmental stress, hazard and disaster.	5M
	ii) Describe Ecosystem approach to mitigate environmental stress. In what way it is different from the perception approach?	5M

OR

11. B).	Human perception changes with environmental degradation. Justify the statement.	10M

12. A).	Explain how man-made hazards trigger the natural hazards	10M

OR

12. B).	Explain different types of Endogenous hazards.	10M

13. A).	Summarize about volcanic eruptions impacts on environment	10M

OR

13. B).	Explain the reason behind Zones of earthquake occurrence in India. List out various hazardous effects of earthquakes.	10M

14. A).	i) Mention the causes of drought and the mitigation measures.	5M
	ii) Explain the relation between environmental hazard and ecology with respect to drought.	5M

OR

14. B).	State the factors influencing the soil erosion along with different methods of conservation measures.	10M

(P.T.O..)

15. A). i) Illustrate the considerations related to the disaster management of human resources   5M
during the COVID-19 pandemic.

ii) Write few implementations required in such emergency situations with disaster   5M
response team

OR

15. B). Differentiate rescue and preparedness. Explain pre disaster measures that would have   10M
reduced the impact of land slide disaster.

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CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)
B.Tech VII Semester Regular/Supplementary Examinations December-2022
Course Name: INTRODUCTION DATABASE MANAGEMENT SYSTEMS
(Common for MECH, EEE & ECE)

Date: 17.12.2022 AN	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.	What is JOIN operation and mention their types?	2 M
2.	What is Data Abstraction in DBMS?	2 M
3.	List the various data types supported by SQL.	2 M
4.	What are the advantages and disadvantages of views in a database?	2 M
5.	Distinguish between EXISTS and NOT EXISTS.	2 M
6.	Explain about any two SQL Aggregate Functions.	2 M
7.	What is Exception and write the types?	2 M
8.	What are Packages?	2 M
9.	Explain about functional dependency.	2 M
10.	What are the various update anomalies that can arise in a relational database?	2 M

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

11.A).	With a neat diagram describe the overall system structure of DBMS.	10M

OR

11. B).	What are the basic operations used in relational algebra? Explain with examples.	10M

12. A).	What is the use of constraints? What are the different types of constraints that can be specified? Explain with examples.	10M

OR

12. B).	Explain the following commands with examples: i) Alter Table, ii) Drop Table, iii) Truncate & iv) Create	10M

13. A).	Give syntax for DML commands? Show their operations with an example.	10M

OR

13. B).	What is a Query? Consider the following database schema to write queries in SQL Supplier (id, name, city) Parts (pno, pname, pdescription) Supply (id, pno, cost) i) Find the names of the parts supplied by "Kumar" ii) Find the names of the suppliers who supply "Nuts" iii) Find the cost of bolts being supplied by Mumbai suppliers.	10M

(P.T.O..)

14. A). What is a Cursor? Explain the types of Cursors with suitable example(s)?   10M

OR

14. B). What is a Function? Write its syntax and example function to calculate factorial of a given   10M
number.

15. A). What is normalization? Explain 1NF, 2NF and 3NF with example for each.   10M

OR

15. B). What do you mean by decomposition of a relation? Why is it required? Discuss the three   10M
desirable properties of decomposition.

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CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)
B.Tech VII Semester Regular/Supplementary Examinations December-2022

Course Name: CLOUD COMPUTING

(Common for EEE & CSE)

Date: 20.12.2022 AN   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.	Define the Quantum Computing.	2 M
2.	Compare Distributed Computing with Parallel Computing.	2 M
3.	Interpret the vision introduced by cloud computing?	2 M
4.	Outline the four cloud deployment models.	2 M
5.	What is meant by Elasticity and Multitenancy?	2 M
6.	Explain different approaches for cloud Migration.	2 M
7.	What are the challenges of SaaS Paradigm?	2 M
8.	Discuss in brief about various types of cloud service models.	2 M
9.	List out the advantages of Amazon Elastic compute cloud (EC2).	2 M
10.	Name the basic modules of EMC's Captiva Cloud Toolkit?	2 M

PART-B

Answer the following. Each question carries TEN Marks.   5x10=50M

11.A).	Why do you think users are shifting from traditional On-premises Computing to Cloud computing? Justify your answer.	10M

OR

11. B).	Summarize the benefits and applications of nano computing.	10M
12. A).	Discuss the cloud computing reference model with a neat diagram.	10M

OR

12. B).	What is the need of cloud computing? Explain its essential characteristics.	10M
13. A).	Explain various approaches used for cloud Migration.	10M

OR

13. B).	Outline the importance of Quality and Security in Cloud.	10M
14. A).	Explain in detail about Para virtualization.	10M

OR

14. B).	With a neat diagram, explain Infrastructure-as-a-Service reference model and its functionalities.	10M
15. A).	Discuss in detail about Amazon elastic Compute Cloud (EC2).	10M

OR

15. B).	Elaborate on Google's Cloud storage.	10M

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