VOCATIONAL PRACTICALS QUESTION BANK

(With Effect from the Academic year 2025-26)

COMPUTER SCIENCE
(COURSE CODE: 332)

State Institute of Vocational Education

O/o the Commissioner of Intermediate Education,
Telangana State, Hyderabad

&

Board of Intermediate Education

Telangana State, Hyderabad

List of Participants		
1.	Dr. Parsi Kalpana Associate Professor Vasavi College of Engineering Hyderabad	
2.	**K. Sateesh Kumar,** Junior Lecturer in Computer Science, Government Junior College, Chevella, Rangareddy District	
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4.	**Co-ordinator** Smt R.Jyothsna Lecturer in SIVE, O/o the C.I.E., Telangana, Hyderabad.	

COMPUTER SCIENCE
SECOND YEAR
PRACTICAL QUESTION BANK
Paper I: OOPS THROUGH JAVA LAB (332/71)

Time: 3hrs   **Max. Marks: 50**

SECTION-I

1X20=20 Marks

1. Write steps to create and execute java program.

2. Write a Java program to declare and initialize a two dimensional array set.

3. Write a java program to demonstrate collections framework.

4. Write a java program for grid layout.

5. Write a java program to display a text message "Welcome" when we press mouse click.

SECTION-II

1X10=10 Marks

6. Write a simple Java program to print "Hello World".

7. Write a Java program to demonstrate switch statement.

8. Write a Java program to demonstrate creation of applets.

9. What are the steps to perform event handling?

10. Write about Java classes used for file handling.

SECTION-III

1X10=0 Marks

11. Write the basic structure of a Java program.

12. Write about any five Java API packages.

13. What is the use of try-catch block in exception handling?

14. Write about various Java components.

15. Write about different types of errors occurs in Java.

Record   **5 marks**

Viva- Voice   **5 Marks**

COMPUTER SCIENCE
SECOND YEAR
MODEL QUESTION PAPER
Paper I: OOPS THROUGH JAVA LAB
(332/71)

Time: 3hrs   **Max. Marks: 50**

2, 8, 14

Note: The serial numbers of the questions mentioned above are the serial number in question bank. In practical examination only the serial number of the question will be given and for forty (40) marks. The examiner shall decode it with the question bank and give the questions.

Record   **5 marks**

Viva- Voice   **5 Marks**

COMPUTER SCIENCE
SECOND YEAR
PRACTICAL QUESTION BANK
Paper II: SQL LAB (332/72)

Time: 3hrs   **Max. Marks: 50**

SECTION-I

1X20=20 Marks

1. Write and Demonstrate the DDL commands using the following fields
   Stu_Rollno, Student_name, fee_paid, date_of_joining, Stu_Rollno should
   be declared as unique.
   Insert five records in the above table CS.

2. Write and Demonstrate the DML commands using the following fields
   Employee_id, Employee_name, Designation, Basic pay, DA, HRA,
deductions, Gross pay and Net pay
   Insert five records in the above table CS.

3. Write a PL/SQL program to demonstrate procedure.

4. Write a PL/SQL program to handle exceptions.

5. Write a PL/SQL program on statement level trigger.

SECTION-II

1X10=10 Marks

6. Write about various datatypes used in SQL

7. Create a database having two tables with the following fields to
computerize a Library system of a University College.
   Library Books table (Accession Number, Title, Author, Department,
                          Purchase Date, Price)
   Issued Books table (Accession Number, Borrower)".

8. Create a table using following fields and insert at least 5 records in table
   Library Books (Accession Number, Title, Author, Department, Purchase
   Date, Price).

9. Write about The Structure of PL/SQL.

10. Write and demonstrate TCL commands using any table

SECTION-III

1X10=0 Marks

11. Write a syntax and example using IF statement in PL/SQL .

12. What is a View? Write a PL/SQL Program to create a view.

13. Write a PL/SQL Program to swap two numbers.

14. Example of a recursive query in PL/SQL

15. Write a PL/SQL program to demonstrate create and call Functions.

Record   **5 marks**

Viva- Voice   **5 Marks**

COMPUTER SCIENCE
SECOND YEAR
MODEL QUESTION PAPER
Paper II: SQL LAB (332/72)

Time: 3hrs   **Max. Marks: 50**

3, 9,15

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Record   **5 marks**

Viva- Voice   **5 Marks**

COMPUTER SCIENCE
SECOND YEAR
PRACTICAL QUESTION BANK

PAPER-III: DATA COMMUNICATIONS AND COMPUTER NETWORKS
(332/73)

Section – I

1. Write a java program to demonstrate Hamming code for Error Detection and Correction.
2. Write a java program to illustrate Sliding Window Protocol (Go-Back-N ARQ).
3. Write a java program to implement Leaky Bucket Algorithm.
4. Write a java program to implement Token Bucket Algorithm.
5. Write a java program to implement Flooding Algorithm.

Section – II

6. Write a java program to demonstrate CRC (Cyclic Redundancy Check).
7. Write a java program to implement Broadcast Routing.
8. Write a java program to demonstrate Simulation of Circuit Switching.
9. Write a java program to demonstrate Simulation of Packet Switching.
10. Write a java program to implement Transposition Cipher (Columnar)

Section – III

11. Write a java program to demonstrate Byte Stuffing (Framing).
12. Write a java program to illustrate Stop-and-Wait ARQ.
13. Write a java program to validate IPv4 Address.
14. Write a java program to validate IPv6 Address.
15. Write a java program to Open a Web Browser (Internet Connectivity).

Record	**5 Marks**
Viva	**5 Marks**

COMPUTER SCIENCE

SECOND YEAR
MODEL QUESTION PAPER
PAPER-III: DATA COMMUNICATIONS AND COMPUTER NETWORKS
(332/73)

Time: 3hrs   **Max. Marks: 50**

3, 9, 15

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Record	**5 marks**
Viva- Voice	**5 Marks**