


SAVITIBAI PHULE UNIVERSITY OF PUNE
M.Sc. (Computer Science) Part I Semester I Practical
Examination 2023-2024

SUBJECT: CS-511-MJP Lab Course on Advance Databases and Web Technologies

Time: 3 hours

Max. Marks: 35

<p>Write the HTML5 code for generating the form as shown below. Apply the internal CSS to the following form to change the font size of the heading to 6pt and change the color to red and also change the background color to yellow.</p> <div style="text-align: center; margin: 10px 0;"> <u>Project Management</u> </div> 	10
<ol style="list-style-type: none"> 1. Model the following Property system as a document database. Consider a set of Property, Owner. One owner can buy many properties. 2. Assume appropriate attributes and collections as per the query requirements. [3] 3. Insert at least 05 documents in each collection. [3] 4. Answer the following Queries <ol style="list-style-type: none"> a. Display area wise property details. [3] b. Display property owned by 'Mr.Patil' having minimum rate [3] c. Give the details of owner whose property is at “Nashik”. [4] d. Display area of property whose rate is less than 100000. [4] 	20
Viva	5

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Create a container add row inside it and add 3 columns inside row using BootStrap.	10
<ol style="list-style-type: none">1. Model the following system as a document database. Consider a database of newspaper, publisher, and city. Different publisher publishes various newspapers in different cities2. Assume appropriate attributes and collections as per the query requirements. [3]3. Insert at least 5 documents in each collection. [3]4. Answer the following Queries.<ol style="list-style-type: none">a. List all newspapers available “NASHIK” city [3]b. List all the newspaper of “Marathi” language [3]c. Count no. of publishers of “Gujrat” state [4]d. Write a cursor to show newspapers with highest sale in Maharashtra State [4]	20
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Write a bootstrap application to display thumbnails of the images.	10
<ol style="list-style-type: none">1. Model the following system as a document database. Consider employee and department's information.2. Assume appropriate attributes and collections as per the query requirements. [3]3. Insert at least 5 documents in each collection. [3]4. Answer the following Queries.<ol style="list-style-type: none">a. Display name of employee who has highest salary [3]b. Display biggest department with max. no. of employees [3]c. Write a cursor which shows department wise employee information [4]d. List all the employees who work in Sales dept and salary > 50000 [4]	20
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Write a bootstrap program for the following “The .table class adds basic styling (light padding and only horizontal dividers) to a table” The table can have the first name, last name, and email id as columns	10
<ol style="list-style-type: none">1. Model the following information system as a document database. Consider hospitals around Nashik. Each hospital may have one or more specializations like Pediatric, Gynaec, Orthopedic, etc. A person can recommend/provide review for a hospital. A doctor can give service to one or more hospitals.2. Assume appropriate attributes and collections as per the query requirements. [3]3. Insert at least 10 documents in each collection. [3]4. Answer the following Queries <ol style="list-style-type: none">a. List the names of hospitals with..... specialization. [3]b. List the Names of all hospital located in city [3]c. List the names of hospitals where Dr. Deshmukh visits [4]d. List the names of hospitals whose rating ≥ 4 [4]	20
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Write a HTML code, which generate the following output [Apply border, border radius tags]	10																				
<table><tr><th colspan="4">List of Persons</th></tr><tr><th>Srno</th><th>Person Name</th><th>Age</th><th>Country</th></tr><tr><td>1</td><td></td><td></td><td></td></tr><tr><td>2</td><td></td><td></td><td></td></tr><tr><td>3</td><td></td><td></td><td></td></tr></table>	List of Persons				Srno	Person Name	Age	Country	1				2				3				
List of Persons																					
Srno	Person Name	Age	Country																		
1																					
2																					
3																					
<div>1. Model the following database. Many employees working on one project. A company has various ongoing projects.</div> <div>2. Assume appropriate attributes and collections as per the query requirements. [3]</div> <div>3. Insert at least 5 documents in each collection. [3]</div> <div>4. Answer the following Queries</div> <div><div>a. List all names of projects where Project_type =..... [3]</div><div>b. List all the projects with duration greater than 3 months [3]</div><div>c. Count no. of employees working onproject [4]</div><div>d. List the names of projects on which Mr. Patil is working [4]</div></div>	20																				
Viva	5																				

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Create a web page being rendered in the browser consists of many things - logo, informative text, pictures, hyperlinks, navigational structure and table.	10
<ol style="list-style-type: none">1. Model the following information as a document database. A customer can take different policies and get the benefit. There are different types of policies provided by various companies2. Assume appropriate attributes and collections as per the query requirements. [3]3. Insert at least 5 documents in each collection. [3]4. Answer the following Queries.<ol style="list-style-type: none">a. List the details of customers who have taken “Komal Jeevan” Policy [3]b. Display average premium amount [3]c. Increase the premium amount by 5% for policy type=”Monthly” [4]d. Count no. of customers who have taken policy type “half yearly”. [4]	20
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Create a 3D text, apply appropriate font, style, color. Use : Hover in the style selector so that the 3D effects appear only when you hover over the text	10
<ol style="list-style-type: none">1. Model the following information as a document database. A customer operates his bank account, does various transactions and get the banking services2. Assume appropriate attributes and collections as per the query requirements. [3]3. Insert at least 5 documents in each collection. [3]4. Answer the following Queries.<ol style="list-style-type: none">a. List names of all customers whose first name starts with a “S” [3]b. List all customers who has open an account on 1/1/2020 in ____branch [3]c. List the names customers where acctype=”Saving” [4]d. Count total no. of loan account holder ofbranch [4]	20
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Create a button with different style (Secondary, Primary, Success, Error, Info, Warning, Danger) using BootStrap	10
<ol style="list-style-type: none">1. Model the following inventory information as a document database. The inventory keeps track of various items. The items are tagged in various categories. Items may be kept in various warehouses and each warehouse keeps track of the quantity of the item.2. Assume appropriate attributes and collections as per the query requirements [3]3. Insert at least 5 documents in each collection. [3]4. Answer the following Queries.<ol style="list-style-type: none">a. List all the items qty is greater than 300 [3]b. List all items which have tags less than 5 [3]c. List all items having status equal to “B” or having quantity less than 50 and height of the product should be greater than 8 [4]d. Find all warehouse that keeps item “Planner” and having in stock quantity less than 20 [4]	20
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Write an HTML 5 program for student registration form for college admission. Use input type like search, email, date etc	10
<ol style="list-style-type: none">1. Model the following Customer Loan information as a document database. Consider Customer Loan information system where the customer can take many types of loans.2. Assume appropriate attributes and collections as per the query requirements [3]3. Insert at least 10 documents in each collection. [3]4. Answer the following Queries.<ol style="list-style-type: none">a. List all customers whose name starts with 'D' character [3]b. List the names of customer in descending order who has taken a loan from Pimpri city. [3]c. Display customer details having maximum loan amount. [4]d. Update the address of customer whose name is “Mr. Patil” and loan_amt is greater than 100000. [4]	20
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Create a web page that shows use of transition properties, transition delay and duration effect.	10
<ol style="list-style-type: none">1. Model the following Online shopping information as a document database. Consider online shopping where the customer can get different products from different brands. Customers can rate the brands and products2. Assume appropriate attributes and collections as per the query requirements [3]3. Insert at least 5 documents in each collection. [3]4. Answer the following Queries.<ol style="list-style-type: none">a. List the names of product whose warranty period is one year [3]b. List the customers has done purchase on “15/08/2023”. [3]c. Display the names of products with brand which have highest rating. [4]d. Display customers who stay in city and billamt >50000 .[4]	20
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Write a HTML code which will divide web page in three frames. First frame should consists of company name as heading. Second frame should consists of name of departments with hyperlink. Once click on any department, it should display information of that department in third frame.	10
<ol style="list-style-type: none">1. Model the following sales system as a document database. Consider a set of products, customers, orders and invoices. An invoice is generated when an order is processed.2. Assume appropriate attributes and collections as per the query requirements.[3]3. Insert at least 5 documents in each collection. [3]4. Answer the following Queries.<ol style="list-style-type: none">a. List all products in the inventory. [3]b. List the details of orders with a value >20000. [3]c. List all the orders which has not been processed (invoice not generated)[4]d. List all the orders along with their invoice for “Mr. Rajiv”.[4]	20
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Design an appropriate HTML form for customer registration visiting a departmental store. Form should consist of fields such as name, contact no, gender, preferred days of purchasing, favorite item (to be selected from a list of items), suggestions etc. You should provide button to submit as well as reset the form contents.	10
<p>1. Model the following online movie information as a document database. Consider online movie information where the each actor has acted in one or more movie. Each producer has produced many movies but each movie can be produced by more than one producers. Each movie has one or more actors acting in it, in different roles.</p> <p>2. Assume appropriate attributes and collections as per the query requirements[3]</p> <p>3. Insert at least 05 documents in each collection. [3]</p> <p>4. Answer the following Queries.</p> <p>a. List the names of movies with the highest budget. [3]</p> <p>b. Display the details of producer who have produced more than one movie in a year. [3]</p> <p>c. List the names of actors who have acted in at least one movie, in which 'Akshay' has acted. [4]</p> <p>d. List the names of movies, produced by more than one produce. [4]</p>	20
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Create a useful web with the following information and structure using HTML5 tags like:<header> , <footer>, <nav>, <aside>, <section>	10
<ol style="list-style-type: none">1. Model the following Student Competition information as a document database. Consider Student competition information where the student can participate in many competitions.2. Assume appropriate attributes and collections as per the query requirements [3]3. Insert at least 10 documents in each collection. [3]4. Answer the following Queries.<ol style="list-style-type: none">a. Display average no. of students participating in each competition.[3]b. Find the number of student for programming competition. [3]c. Display the names of first three winners of each competition. [4]d. Display students from class 'FY' and participated in 'E-Rangoli ' Competition. [4]	20
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Design an HTML form to take the information of a customer for booking a travel plan consisting of fields such as name, address, contact no., gender, preferred season(Checkboxes), location type(to be selected from a list) etc. You should provide button to submit as well as reset the form contents	10
<p>Model the following system as a graph model, and answer the queries using Cypher.</p> <p>Government provides various scholarships for students. A students apply for scholarship. Student can get benefits of more than one scholarship if satisfies the criteria. Student can recommend it for his friends or other family members</p> <ol style="list-style-type: none">1. Identify the labels and relationships, along with their properties, and draw a high-level Graph model. [3]2. Create nodes and relationships, along with their properties, and visualize your actual Graph model. [3]3. Answer the following Queries in Cypher:<ol style="list-style-type: none">a. List the names of scholarship for OBC category.[3]b. Count no. of students who are benefitted by ____ scholarship in year 2020-2021 [3]c. Update the income limit for ____ scholarship. [4]d. List the most popular scholarship. [4]	20
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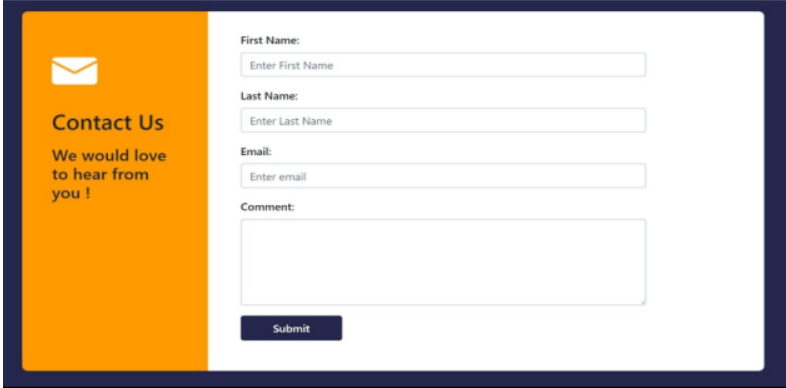
<p>Create HTML web-page using Bootstrap as shown below</p> 	10
<p>Model the following movie system as a Graph database. Consider a information about of movie and actors. One movie can have more than one actor</p> <ol style="list-style-type: none"> 1. Identify the labels and relationships, along with their properties, and draw a high-level Graph model. [3] 2. Create nodes and relationships, along with their properties, and visualize your actual Graph model. [3] 3. Answer the Queries: <ol style="list-style-type: none"> a. Find movie which made highest business. [3] b. Display details of movie along with actors. [3] c. List all the movie of “Shahrukh Khan”. [4] d. Display all movie having more than 2 awards received [4] 	20
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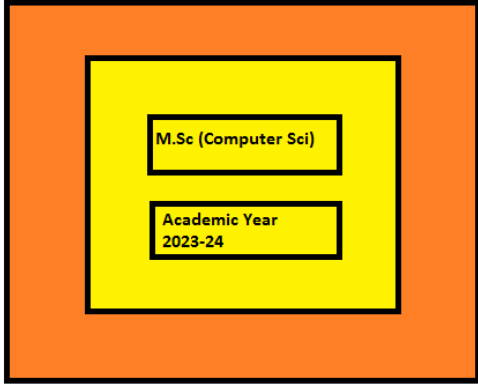
<p>Create Contact Form on Bootstrap</p> 	10
<p>Model the following food service industry information as a graph model, and answer the following queries using Cypher. Consider food service industries like ZOMATO, Swiggy around us. Popular restaurants are connected to these industries to increase sell. A person order food through this industry and get offers. A person give rate(1-5 stars) to company its facility/facilities. and can recommend this to his/her friends.</p> <p>4. Identify the labels and relationships, along with their properties, and draw a high-level Graph model. [3] 5. Create nodes and relationships, along with their properties, and visualize your actual Graph model. [3] 6. Answer the Queries.</p> <ol style="list-style-type: none"> Count no. of customers who place order on “1/1/2023” [3] List the names of customers whose name starts with S and place order using Swiggy [3] List the names of hotels with high rating (≥ 4). [4] List the most recommended hotels in..... area. [4] 	20
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<p>Design HTML 5 Page Using CSS which display the following Box (use Box Model Property in CSS)</p> 	10
<p>Model the following Books and Publisher information as a graph model, and answer the following queries using Cypher.</p> <p>Author wrote various types of books which is published by publishers. A reader reads a books according to his linking and can recommend/provide review for it.</p> <ol style="list-style-type: none"> 1. Identify the labels and relationships, along with their properties, and draw a high-level Graph model. [3] 2. Create nodes and relationships, along with their properties, and visualize your actual Graph model.[3] 3. Answer the Queries <ol style="list-style-type: none"> a. List the names of authors who wrote “Comics”. [3] b. Count no. of readers of _____book published by “Sage”. [3] c. List all the publisher whose name starts with “N” [4] d. List the names of people who have given a rating of (≥ 3) for _____ book [4] 	20
<p>Viva</p>	5

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Create a web page, place an image in center and apply 2d transformation on it. (rotation, scaling, translation)	10
<p>Model the following Doctor's information system as a graph model, and answer the following queries using Cypher.</p> <p>Consider the doctors in and around Pune. Each Doctor is specialized in some stream like Pediatric, Gynaec, Heart Specialist, Cancer Specialist, ENT, etc. A doctor may be a visiting doctor across many hospitals or he may own a clinic. A person can provide a review/can recommend a doctor.</p> <p>1. Identify the labels and relationships, along with their properties, and draw a high-level Graph model. [3]</p> <p>2. Create nodes and relationships, along with their properties, and visualize your actual Graph model. [3]</p> <p>3. Answer the Queries</p> <ul style="list-style-type: none">a. List the Orthopedic doctors in Area. [3]b. List the doctors who has specialization in ____ [3]c. List the most recommended Pediatrics in Seren Meadows. [4]d. List all the who visits more than 2 hospitals [4]	20
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Create a web page in which show a button with a text “start download” , when click in start download a progress bar must be initialized with value 0 then increase by 10 in each second, change the color of progress bar after every three seconds..	10
<p>Model the following Laptop manufacturing information system as a graph model, and answer the following queries using Cypher.</p> <p>Consider an Laptop manufacturing industries which produces different types of laptops. A customer can buy a laptop, recommend or rate a the product.</p> <ol style="list-style-type: none">1. Identify the labels and relationships, along with their properties, and draw a high-level Graph model. [3]2. Create nodes and relationships, along with their properties, and visualize your actual Graph model.[3]3. Answer the Queries<ol style="list-style-type: none">a. List the characteristics of..... laptop. [3]b. List the name of customers who bought a “DELL” company laptop [3]c. List the customers who purchase a device on “26/01/2023”[4]d. List the most recommended device.[4]	20
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Create a web page , show a button with a text “start download” , when click in start download a progress bar must be initialized with value 0 then increase by 5 in each second then at the end of downloading process alert the message “Download completed”	10
<p>Model the following nursery management information as a graph model, and answer the following queries using Cypher.</p> <p>Nursery content various types of plants, fertilizers and required products. Customer visit the nursery or use an app , purchase the plants and necessary products also rate and recommend the app</p> <ol style="list-style-type: none">1. Identify the labels and relationships, along with their properties, and draw a high-level Graph model. [3]2. Create nodes and relationships, along with their properties, and visualize your actual Graph model. [3]3. Answer the following queries using Cypher:<ol style="list-style-type: none">a. List the types of plants from your graph model [3]b. List the popular flowering plants. [3]c. List the names of plants sold plant where qty>500 in last 2 days [4]d. List the names of suppliers in decreasing order who supplies “Creepers”. [4]	20
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Write a css3 script for the student registration form with appropriate message display also high light compulsory fields in a different color	10
<p>Model the following Medical information as a graph model, and answer the following queries using Cypher.</p> <p>There are various brands of medicine like Dr. Reddy, Cipla, SunPharma etc. Their uses vary across different states in India. The uses of medicine is measured as %, with a high use defined as $\geq 90\%$, Medium Use between 50 to 90%, and Low Use $< 50\%$. Each medicine manufactures various types of medicine products like Tablet, Syrup, and Powder etc.</p> <ol style="list-style-type: none">1. Identify the labels and relationships, along with their properties, and draw a high-level Graph model. [3]2. Create nodes and relationships, along with their properties, and visualize your actual Graph model. [3]3. Answer the following queries using Cypher:<ol style="list-style-type: none">a. List the names of different medicines considered in your graph [3]b. List the medicine that are highly Used in Rajasthan. [3]c. List the highly used tablet in Gujarat. [4]d. List the medicine names manufacturing "Powder" [4]	20
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Create a web page to create 3D text. Apply all text effects like text shadow, text overflow, wordwrap etc	10
<p>Model the following Car Showroom information as a graph model, and answer the queries using Cypher. Consider a car showroom with different models of cars like sofas Honda city, Skoda, Creta, Swift, Ertiga etc. Showroom is divided into different sections, one section for each car model; each section is handled by a sales staff. A sales staff can handle one or more sections. Customer may enquire about car. An enquiry may result in a purchase by the customer.</p> <ol style="list-style-type: none">1. Identify the labels and relationships, along with their properties, and draw a high-level Graph model. [3]2. Create nodes and relationships, along with their properties, and visualize your actual Graph model. [3]3. Answer the following queries:<ol style="list-style-type: none">a. List the types of cars available in the showroom. [3]b. List the sections handled by Mr. Narayan. [3]c. List the names of customers who have done only enquiry but not made any purchase. [4]d. List the highly sale car model. [4]	20
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Create a web page to display image on screen Apply the following a. Display image in tiles b. Rotate image in clockwise and anticlockwise direction	10
Model the following Automobile information system as a graph model, and answer the following queries using Cypher. Consider an Automobile industry manufacturing different types of vehicles like Two- Wheeler, Four-Wheeler, etc. A customer can buy one or more types of vehicle. A person can recommend or rate a vehicle type. 1. Identify the labels and relationships, along with their properties, and draw a high-level Graph model. [3] 2. Create nodes and relationships, along with their properties, and visualize your actual Graph model. [3] 3. Answer the following Queries: a. List the characteristics of four wheeler types. [3] b. List the name of customers who bought a two wheeler vehicle. [3] c. List the customers who bought more than one type of vehicle. [4] d. List the most recommended vehicle type. [4]	20
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<p>Create an html page named as “calendar.html” Use necessary input types and get following output</p> <p style="text-align: center;">Input Types Examples</p> <div style="text-align: center;"> <p>Date: <input type="text" value="dd/mm/yyyy"/> </p> <p>Datetime: <input type="text"/></p> <p>Datetime-local: <input type="text" value="dd/mm/yyyy --:--"/> </p> <p>Month: <input type="text" value="-----, ----"/> </p> <p>Time: <input type="text" value="--:--"/> </p> <p>Week: <input type="text" value="Week --, ----"/> </p> <p><input type="button" value="Submit"/></p> </div>	10
<p>Model the following Library information system as a graph model, and answer the following queries using Cypher.</p> <p>Consider a library information system having different types of books like text, reference, bibliography etc. A student can buy one or more types of book. A student can recommend or rate a book according to its type.</p> <ol style="list-style-type: none"> 1. Identify the labels and relationships, along with their properties, and draw a high-level Graph model. [3] 2. Create nodes and relationships, along with their properties, and visualize your actual Graph model. [3] 3. Answer the following Queries : <ol style="list-style-type: none"> a. List the books of type “text” [3] b. List the name of student who bought a text and reference types books.[3] c. List the most recommended book type. [4] d. List the student who buy the more than one type of book [4] 	20
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SUBJECT: CS-511-MJP Lab Course on Advance Databases and Web Technologies

Time: 3 hours

Max. Marks: 35

Write the HTML5 code for generating the form as shown below. Apply the internal CSS to the following form to set the font size, font color, heading , background color etc. **10**

The screenshot shows a web form titled "ENTRY FORM" in red. It contains the following fields and controls:

- Enter your Name :** A text input field.
- Enter your Age :** A text input field.
- Enter your Address :** A text area with up and down arrow icons.
- Sex :** Radio buttons for "Female" and "Male".
- Nationality :** A dropdown menu with the text "(Please select a country)".
- Languages Known :** A section with the instruction "You select more than one" and checkboxes for "C/C++", "VB", "JAVA", "ASP", and "OTHERS".
- Enter your Password :** A text input field.
- At the bottom, there are "Reset" and "Submit" buttons.

Model the following University information system as a graph model, and answer the following queries using Cypher. **20**

University has various departments like Physics, Geography, Computer etc. Each department conducts various courses and a course may be conducted by multiple departments. Every course may have recommendations provided by people.

1. Identify the labels and relationships, along with their properties, and draw a high-level Graph model. [3]
2. Create nodes and relationships, along with their properties, and visualize your actual Graph model. [3]
3. Answer the following Queries :
 - a. List the details of all the departments in the university. [3]
 - b. List the names of the courses provided by Physics department. [3]
 - c. List the most recommended course in Geography department. [4]
 - d. List the names of common courses across Mathematics and computer department. [4]

Viva **5**