

Pimpri Chinchwad University

Established under Govt. of Maharashtra Act No. V of 2023 Sate, Maval (PMRDA) Dist - Pune, Maharashtra - 412 106.



SCHOOL OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF BCA

ACADEMIC YEAR: - 2024-25(ODD SEM.)

Class Test-I Examination - September- 2024

Program

: BCA

Batch: 2023-25

Semester: I

Max

Marks: 20 marks

Date:

Time:

Course Name: Programming with C++

Course Code: UBC103

Course Outcomes (CO):

- 1.To identify basic web development methodologies
- 2. Understand static web-based application using suitable client-side web technologies
- 3. Apply Knowledge of foundational understanding of web development concepts for further study
- 4. Analyze and create responsive layouts that adapt to various devices and screen sizes.
- 5. Evaluate the JavaScript, enabling dynamic content generation, effective event handling, and efficient DOM traversal techniques.

Instructions:

- 1. Each question carries equal marks.
- 2. Answer any four questions.
- 3. Include relevant figures and examples where necessary.

Question	CO	BL	Marks
Q.1) Explain basic HTML tags	1	1	5 Marks
Q.2) A list of your favorite fruits (using the tag).	1	2	5 Marks
Q.3) Create Login Page, with username, password and submit button.	2	2	5 Marks
Q.4) Create a form with two radio button for Gender values Male and female. With submit button	2	2	5 Marks
Q.5) Using style tag, give background color to the body and color to the paragraph of the web page	2	2	5 Marks
Or Q5)Explain what is website, web page, WWW and internet			



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Semester: 1

Time: 1 Hr.

Maximum Marks: 20 marks

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Course Code : UBC105

Course Name: Fundamentals of Computer Architecture

Course Outcomes (CO):

1. Identify the digital security measures taken to protect device from threats

2. Explain the access control mechanism and understand how to protect servers.

3. Explain the importance of network basics and security of network protocols.

4. Analyze the cyber-attacks, learn data privacy issues and preventive measures

5. Discuss the various attacks in the web interface.

Instructions:1) Draw the diagram wherever necessary

2) Solve any Four Questions

Question	co	BL	Marks
Each question carries equal marks.		-	
Q.1) Brief history of computer evolution.	1	1	5 Marks
Q.2) Explain functional diagram of computers.	1	2	5 Marks
Q.3) List the different registers. MAR MOR, TR, ALU	2	2	5 Marks
Q.4) Explain types of Memory.	2	2	5 Marks
Q.5) Short Note a) PC b) MDR	1	2	5 Marks

*Best of Luck****



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Semester: I

Maximum Marks: 20 marks

Time: 1 Hr.

Course Name: Introduction to IoT

Course Code: UBC108A

Course Outcomes (CO):

- 1. Understand various concepts, terminologies and architecture of IoT systems
- 2. Explain the Use sensors and actuators for design of IoT.
- 3. Apply various protocols for design of IoT systems.
- 4. Analyse the various techniques of data storage and analytics in IoT.
- 5. Discuss the APIs to connect IoT related technologies.

Instructions:1) Q.1 is compulsory

2) Solve any Two from Q.2 to Q.4

Q.1) Solve all Multiple Choice Question

10 Marks

- 1. What is the full form of IoT?
 - a) Internet of Technology
 - b) Incorporate of Things
 - g) Internet of Things
 - d) Incorporate of Technology
- 2. Which of the following is not an IoT device?
 - a)-Table
 - b) Laptop
 - c) Arduino
 - d) Tablet
- 3. Which of the following is false about IoT devices?
 - a) IoT devices use the internet for collecting and sharing data
 - b) IoT devices need microcontrollers
 - c) IoT devices use wireless technology
 - d) IoT devices are completely safe
- 4. Which of the following is not an application of IoT?
 - a)-BMP280
 - b) Smart home
 - c) Smart city
 - d) Self-driven cars
- 5. Which of the following is used to capture data from the physical world in IoT devices?
 - a) Sensors
 - b) Actuators
 - c) Microprocessors
 - d) Microcontrollers

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ACADEMIC YEAR: - 2024-25(ODD SEM.)

Class Test-I Examination - September- 2024

Program: BCA Batch: 2024-Semester: Ist Maximum Marks: 20 marks Time: 1 Hr

Course Name: Basics of Mathematics Course Code: UBC106

Course Outcomes (CO):

- 1. To memorize the Matrices and its operations.
- 2. Classify the trigonometric functions.
- 3. To execute various operations on analytical geometry.
- 4. To compare the various forms of differential calculus.
- 5. To evaluate the different forms of calculus.

Instructions.

- 1. Answer any 4 out of the 5 questions provided.
- 2. Each question carries equal marks.
- 3. Where applicable, provide examples so support your answers.

Contract of the Contract of th			Š.
Maximum 5.0	CO	EL	Marks
Maximum 5 Questions has to be given and ask for Solve any 4 question	ns		7.4.00
zaen question carries equal marks.	41.54		
Q1. Explain row matrix, column matrix, square matrix, and	T		
and skew symmetric matrix with example.	CO ₁	1	5 Marks
Q2. Solve the following examples:	-		5 Walks
A. Matrix multiplication. (Any 2) 2Marks each			
1. 1 -2 3 1 0 2			
2 3 -3 0 1 2			
<u>-3</u> 1 <u>2</u> 1 2 0	-		
			TRATE OF THE PARTY
2. 1 8 3 6 7 4			
6 2 7 5 9 8			
	CO1	2	5 Marks
2 1 -3 3 1	11.	7.1	3 Marks
4 2			1.8
. Matrix Addition: (Any 5) Each ½ Marks			
. Matrix Addition: (Any 5) Each ½ Marks	1. 1.		
1 6 -5 2			
5 7 4 10			1
	100		

 If tan A=6/8, then find other five trigonometric ratios. If sec B=6/8, then find other five trigonometric ratios. Explain Gauss elimination method and explain Gauss Jordan method. 	COI	1	5 Mark
1. 11 ⁰ 2. 13 ⁰ 3. 23 ⁰ 4. 21 ⁰ C. Solve the trigonometric ratios.	Barrello de Company de		
B. Convert into radians (Any 3)	CO2	1	5 Mark
1. 17° 2. 9° 3. 7° 4. 7°			
A. Convert into degree (Any 3)	sample of the sa		
Q4. Solve the followings:	Barbara da		-
5. Find the value of 8P if 5 -5 4 9 6 5 8 -5 6			
4. Find the value of 4P if 5 -5 4 9 6 5 8 -5 6			
3. Find the value of 6P if 3 Notes Society 17 6 8 5 9 5 6	COI	1	5 Marks
2. Find the value of 9P if 2 -3 4 1 0 5 7 -4 6	Albert and all advantages and deposits		manufacture expressions, sector properties controlled
1. Find the value of 3P if 2 -3 4 1 0 5 7 -4 6	the state of the s		Approximation of the control of the
Q3. Solve the following examples:	The state of the s		The second secon
5. \[\begin{pmatrix} 1 & 1 & 5 & 2 \\ -3 & 1 & 0 & 1 \end{pmatrix} \]			
2 0 8 6 -5 4 4 4 -8 7 8 -9	The second second second		
5 5 -5 7 2 5 -8 8 -6 -1 8 2 -2 9 8 0 -9 -3	THE MALESTAN COMMISSION OF THE PERSON		
5 9 6 -8 9 -6 6 5 8 -7 9 -5	the first transfer of the section of		
17 8 0 3 -5 2 4 6 5 2 -2 9			
	1	1	



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Time: 1 Hr.

Course Name: Programming Concepts Using C Language

Course Code: UBC101

Course Outcomes (CO):

1. To remember the Knowledge about Computer fundamentals.

2 To understand and trace the execution of programs written in c language.

To apply input and output operation using program in c language.

4. To analyse the concepts and techniques in programming language.

5. To Design and create C code for a given problem.

Instructions:

- Answer any 4 out of the 5 questions provided.
- Each question carries equal marks.
- Where applicable, provide examples to support your answers.

	Question			
Q.1	Explain the Classification of computers based on size, purpose, and	CO	BL	Marks
Q.2	indictionality:	1	11	5 M
` _	What is memory management in a computer system? Discuss the differences between primary and secondary memory.		1	5 M
	Explain Difference between system software and application software. Provide examples of each?.	1	II	5 M
Q.4 Q.5	Explain an overview of the operating system? Explain the various types of programs in	ı	II	5 M
	Explain the various types of programming languages. How do translators (compilers and interpreters) help in the execution of programs?	1	II	5 M



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Semester: I

Maximum Marks: 20 marks

Time: 1 Hr.

Course Name: Management Information System

Course Code: UBC107/VSC

Course Outcomes (CO):

- 1. Define the Role of Management Information system in various organizations.
- 2. Explain the application of the Information System.
- 3. Illustrate the role of Information Processing and Computer devices for designing a system.
- 4. Integrate the various parts of a System for designing a functional information system.
- 5. Discuss the Importance of Decision support system for enhancing the decision making.

Instructions:

- 1. All questions carry equal marks.
- 2. Draw the diagram wherever necessary.
- 3. Solve any 4 questions given below.

Question	со	BL	_s Marks
Q. W Define MIS. Illustrate the characteristics of MIS.	11	1,2	5 Mayles
Q.2) What are the features and functions of MIS?	1	1	5 Marks 5 Marks
Q.3) Summarize how MIS supports planning.	1	2	5 Marks
(4) Explain key components of MIS.	1	1	5 Marks
Q.5) Explain types of information with examples?	1	1	5 Marks

Best of Luck********************