

D. KUN - 2nd year

Enrolment No. _____



PCCET
Pimpri
Chinchwad
University
Learn | Grow | Achieve

PIMPRI CHINCHWAD EDUCATION TRUST
PIMPRI CHINCHWAD UNIVERSITY
Legacy Of Nurturing Excellence Since 1990
(Established under Govt. of Maharashtra Act No. V of 2023)



SCHOOL OF ENGINEERING & TECHNOLOGY

Unit Test-II April- 2025

Date: 25/03/2025

Program:	SYBTECH (SY)	Batch:	2023	Semester :	IV
Course Code & Name:	USME1101 (Entrepreneurship Venture Development)				
Maximum Marks:	20	Time:	1 Hrs		

Course Outcomes:

- To identify key entrepreneurship concepts, theories and principles, including knowledge of different types of entrepreneurs
- To explain the product related opportunities and do feasibility checks
- Apply knowledge of the various perspectives of entrepreneurship that reflect sustainable value for business and society through launches
- Analyse the strategies of an existing business venture and leverage role of support organizations and small businesses
- To evaluate industry relevant success stories and technology developments

Instructions:

- All questions are compulsory.
- Assume missing data suitably, if any.
- Draw well labeled diagrams wherever necessary

QUESTIONS		CO	BTL	Mark s
Q.1 Attempt the following (Any 2)		Max Marks: 10 (2*5)		
A ✓	Identify some of the advantages and disadvantages of being an entrepreneur. Which advantage would be the most important to you? Which disadvantage do you feel is the greatest obstacle?	CO3	B1	05
B ✓	Critically examine the role of Govt. in the promotion of entrepreneurship in India	CO3	B2	05
C	What are the various ways of Idea generation and what role does Design Thinking play in Idea generation?	CO3	B3	05
Q.2 Attempt the following (Any 2)		Max Marks: 10 (2*5)		
A ✓	Define MSME and write short notes on the role of MSME in our Country and their growth over the years	CO4	B3	05
B \	What are the forms of Ownership in small scale organization? Show comparative evaluation for a few parameters	CO4	B3	05
C ✓	Do you think, it is possible for a small business to grow quickly and still retain the family atmosphere? What are the support mechanisms?	CO4	B4	05

*****All the Best*****

Enrolment No. _____



Learn | Grow | Achieve

PCET's
Pimpri
Chinchwad
University

PIMPRI CHINCHWAD EDUCATION TRUST
PIMPRI CHINCHWAD UNIVERSITY

Legacy Of Nurturing Excellence Since 1990
(Established under Govt. of Maharashtra Act No. V of 2023)



A Trustee of Govt. of Maharashtra Since 1990

SCHOOL OF ENGINEERING & TECHNOLOGY

Unit Test-II April- 2025

Date: 01-04-2025

Program:	SY-B.Tech.	Batch:	2023-27	Semester:	IV
Course Code & Name:	UBTCE212 - Java Programming				
Maximum Marks:	20	Time:	1 Hrs		

Course Outcomes:

1. Understand and apply fundamental Java programming concepts to write simple Java programs.
2. Develop and implement object-oriented programming constructs such as classes, objects, methods, constructors, inheritance, and polymorphism to design modular and reusable Java applications.
3. Analyse and apply Java interfaces, packages, and exception handling mechanisms to build robust and modular software systems.
4. Implement multithreading concepts and establish database connections using JDBC to create concurrent and data-driven Java applications.
5. Design and manage data efficiently using Java collection frameworks, file handling mechanisms, and event-driven programming to develop real-world Java applications.

Instructions:

- All questions are compulsory.
- Assume missing data suitably, if any.
- Explain the answers with examples wherever applicable

QUESTIONS		CO	BTL	Marks
Q.1 Attempt the following (Any 2)		Max Marks: 10 (2*5)		
A ✓	Compare between abstract classes and interfaces in Java. Provide suitable examples and a program.	CO3	B4	05
B ✓	Create a Bank interface with getInterestRate(). Implement in SBI and HDFC with different rates. Use interface reference to access.	CO3	B6	05
C	Outline the structure of Java's exception hierarchy with a visual representation.	CO3	B2	05
OR				
Q.2 Attempt the following (Any 2)		Max Marks: 10 (2*5)		
A ✓	Explain thread lifecycle with a diagram.	CO4	B5	05
B ✓	Develop a Java thread using the Runnable interface	CO4	B3	05
C	Develop a student database program with operations of Update and delete records in JDBC.	CO4	B3	05

*****All the Best*****

Enrolment No. _____



PCET's
Pimpri
Chinchwad
University
Learn | Grow | Achieve

PIMPRI CHINCHWAD EDUCATION TRUST
PIMPRI CHINCHWAD UNIVERSITY
Legacy Of Nurturing Excellence Since 1990
(Established under Govt. of Maharashtra Act No. V of 2023)



SCHOOL OF ENGINEERING & TECHNOLOGY

Unit Test-II April- 2025

Date: 01/4/25

Program:	SY B.Tech	Batch :	2023-2027	Semester :	IV
Course Code & Name:	Database Management Systems (UBTCE210)				
Maximum Marks:	20	Time:	1 Hrs		

Course Outcomes:

1. Ability to design entity relationship and convert entity relationship diagrams into RDBMS and ability to identify the data models for relevant problems.
2. Apply normalization for the development of application software's
3. Develop understanding concepts of Relational Database design and query languages.
4. Demonstrate effective Query processing and Transaction Processing.
5. Summarize concurrency control protocols and recovery algorithms.

Instructions:

- All questions are compulsory.
- Assume missing data suitably, if any.
- Draw well labelled diagrams wherever necessary

NotesSociety

QUESTIONS		CO	BTL	Marks
Q.1 Attempt the following (Any 2)		Max Marks: 10 (2*5)		
A	What is trigger? Explain how to implement triggers in SQL?	CO3	B2	05
B	List out domain constraints with an example?	CO3	B2	05
C	Write an SQL query to retrieve the product_name and unit_price from the Products table, ordering the results by unit_price in descending order. Relation(product_id,product_name,category,unit_price)	CO3	B3	05
Q.2 Attempt the following (Any 2)		Max Marks: 10 (2*5)		
A	Define a Transaction? List the properties of transaction.	CO4	B2	05
B	Elaborate transition states with diagram?	CO4	B2	05
C	Describe view Serializability with an example?	CO4	B2	05

Enrolment No. _____



PCET's
Pimpri
Chinchwad
University
Learn | Grow | Achieve

PIMPRI CHINCHWAD EDUCATION TRUST
PIMPRI CHINCHWAD UNIVERSITY
Legacy Of Nurturing Excellence Since 1990
(Established under Govt. of Maharashtra Act No. V of 2023)



SCHOOL OF ENGINEERING & TECHNOLOGY

Unit Test-II April- 2025

Date: 03/4/25

Program:	SY B. Tech	Batch :	2023-2027	Semester :	IV
Course Code & Name:	Internet of Things (UBTCE221A /OE-II)				
Maximum Marks:	20	Time:	1 Hrs		

Course Outcomes:

1. Comprehend the fundamentals and need of IOT.
2. Apply IoT enabling technologies for developing IoT systems
3. Apply design methodology for designing and implementing IoT applications
4. Analyze IoT protocols for making IoT devices communication
5. Design cloud based IoT systems.

Instructions:

- All questions are compulsory.
- Assume missing data suitably, if any.
- Draw well labeled diagrams wherever necessary

QUESTIONS		CO	BTL	Marks
Q.1 Attempt the following (Any 2)		Max Marks: 10 (2*5)		
A	Explain the type of IoT protocols used in each layer of TCP/IP model.	CO3	B2	05
B	Explain RFID in detail.	CO3	B1	05
C	Write the examples of M2M Protocol in Home Automation & also state the difference between M2M and WSN Protocols.	CO3	B3	05
Q.2 Attempt the following (Any 2)		Max Marks: 10 (2*5)		
A	Describe the cloud storage models in IoT system?	CO4	B2	05
B	Explain what is cloud platform?	CO4	B2	05
C	Explain software defined testing?	CO4	B2	05

*****All the Best*****

Enrolment No. _____



PCET'S
Pimpri
Chinchwad
University
Learn | Grow | Achieve

PIMPRI CHINCHWAD EDUCATION TRUST
PIMPRI CHINCHWAD UNIVERSITY
Legacy Of Nurturing Excellence Since 1990
(Established under Govt. of Maharashtra Act No. V of 2023)



SCHOOL OF ENGINEERING & TECHNOLOGY

Unit Test-II April- 2025

Date: 02/4/2025

Program:	SY BTech	Batch :	2023-27	Semester :	IV
Course Code & Name:	UBTCE219/PCC Computer Organization and Architecture				
Maximum Marks:	20	Time:	1 Hrs		

Course Outcomes:

1. Student will learn the concepts of computer organization for several engineering applications.
2. Student will develop the ability and confidence to use the fundamentals of computer organization as a tool in the engineering of digital systems.
3. An ability to identify, formulate, and solve hardware and software computer engineering problems using sound computer engineering principle
4. To impart the knowledge on micro programming
5. Comprehend the concepts of advanced pipelining techniques.

Instructions:

- All questions are compulsory.
- Assume missing data suitably, if any.
- Draw well labelled diagrams wherever necessary

QUESTIONS		CO	BTL	Marks
Q.1 Attempt the following (Any 2)		Max Marks: 10 (2*5)		
A ✓	What is Register Transfer Language?	CO3	B1	05
B ✓	Explain Shift Micro-Operations in detail?	CO3	B2	05
C	Difference between Register and Memory?	CO3	B3	05
OR				
Q.2 Attempt the following (Any 2)		Max Marks: 10 (2*5)		
A	Explain Inter-Process Pipelining in detail with an example?	CO4	B2	05
B	Differentiate between CISC and RISC? (minimum 5 points)	CO4	B3	05
C	Explain the following addressing mode along with suitable example: I) Register addressing. II) Direct addressing.	CO4	B2	05

*****All the Best*****

Enrolment No. _____



PCCET'S
Pimpri
Chinchwad
University
Learn | Grow | Achieve

PIMPRI CHINCHWAD EDUCATION TRUST
PIMPRI CHINCHWAD UNIVERSITY
Legacy Of Nurturing Excellence Since 1990
(Established under Govt. of Maharashtra Act No. V of 2023)



SCHOOL OF ENGINEERING & TECHNOLOGY

Unit Test-II- April 2025

Date: 02/4/25

Program :	SY B.Tech	Batch :	2023-2027	Semester:	IV
Course Code & Name :	Applied Statistical Techniques (UBTCE220)				
Maximum Marks :	20	Time:	1 Hrs		

Course Outcomes (CO):

1. Identify the advanced terms in statistics.
2. Explain the estimation & its techniques.
3. Apply knowledge of hypothesis techniques to test large and small samples.
4. Apply non-parametric tests on practical situations.
5. Analyze parametric and non-parametric inference

Instructions :

- All questions are compulsory.
- Assume missing data suitably, if any.
- Draw well labelled diagrams wherever necessary

QUESTIONS		CO	BTL	Marks
Q 1) Solve any two questions.		Max Marks: 10 (2*5)		
A.	Explain One tailed test and Two Tailed test in detail and Differentiate between both of them?	CO3	B2	05
B.	An online medicine shop claims that the mean delivery time for medicines is less than 120 minutes with a standard deviation of 30 minutes. Is there enough evidence to support this claim at a 0.05 significance level if 49 orders were examined with a mean of 100 minutes?	CO3	B3	05
C.	Bob wants to know if the mean height of a certain species of plant is equal to 15 inches. To test this, he collects a random sample of 20 plants and finds that the sample mean is 14 inches and the sample standard deviation is 3 inches. Conduct a t-test using a .05 alpha level to determine if the true mean height for the population is actually 15 inches	CO3	B3	05
Q 2) Solve any two questions.		Max Marks: 10 (2*5)		
A.	Explain the different Applications of Chi Square test in detail.	CO4	B2	05
B.	The score for those students on the second exam was recorded ■ Front: 82, 83, 97, 93, 55, 67, 53 ■ Middle: 83, 78, 68, 61, 77, 54, 69, 51, 63 ■ Back: 38, 59, 55, 66, 45, 52, 52, 61 Calculate SS, MS, F value and Pvalue.	CO4	B3	05
C.	Eye colour in a sample of 40. Blue 12, brown 21, green 3, others 4. Eye colour in population is Brown 80%, Blue 10%, Green 2%, Others 8%. Is there any difference between proportion of sample to that of population use α 0.05 applying Chi square test?	CO4	B3	05



*****All the Best*****