

Government College of Engineering, Aurangabad

Department of MCA

Midterm Test 2024-25 (First Semester)

Class-SYMCA

Date-08/10/2024

Subject-Advanced Java (MCPCC2014)

Max. Marks- 20

Q1) Attempt Any Two.

- | | |
|---|---|
| a. How many layers are there in OSI model? Explain. | 5 |
| b. Explain the difference between RPC and RMI. | 5 |
| c. Explain socket programming in details. | 5 |

Q2) Attempt Any Two.

- | | |
|--|---|
| a. What is Servlet? What is its need? Explain Its lifecycle. | 5 |
| b. Explain about session management using servlets. | 5 |
| c. What is Servlet Chaining? How it can be achieved? | 5 |

**Government College of Engineering Aurangabad,
Chhatrapati Sambhajinagar**

(An autonomous Institute of Government of Maharashtra)

SY MTech/ SY MCA Examination

ISE-I (Class Test) (October 2024) (15.10.2024)

ECIKS6001 Vedic Approach to Mathematics

Time: 45 Minutes

Max. Marks: 10

N.B:- 1. *Use of any type of calculator is not allowed*

Attempt any five of the following

(10) (K2)

- Q. 1. Compute the following by using *Urdhvatiryagabhyam sutra*
 347×468
- Q. 2. Compute the following by using *Ekadhikena Purvena Sutra*
 748×99
- Q. 3. Divide 1221 by 9 by *Nikhilam Navshcharamam Dashataha Sutra*.
- Q.4. Divide 12055 by 884 by *Nikhilam Navshcharamam Dashataha Sutra*.
- Q.5. Divide 15360 by 133 by *Paravartya Yojyete Sutra*.
- Q.6. Verify by *Ekadhika* method whether 23786 is divisible by 23.

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Master in Computer Application – Class Test ODD Semester 2024-25

MCPEC2008: Block Chain

Time: 02:00 to 03:00

Date: 07-10-2024

Max. Marks: 20

Q. No.	Questions	Marks	Course Outcome	Bloom's Taxonomy Level
1	Attempt any two of the following			
	a. What are the basic ideas of block chain?	5	CO1	K1
	b. Define the concept of cryptography and provide an introduction to bitcoin block chain.	5	CO2	K2
	c. What is difference between private key and public key?	5	CO1	K2
2	Attempt any two of the following			
	a. What are the use cases of bitcoin block chain scripting language in micropayment?	5	CO2	K1
	b. What is the bitcoin network in detail?	5	CO1	K2
	c. Explain mining in block chain with diagram.	5	CO2	K2

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MidTerm Test 2024 - 25 (First Semester)

Class - SYMCA Date - 9th Oct 2024 Subject - Enterprise Resource Planning Max. Marks - 20

Q.1. Attempt any Two

- Why is ERP essential for modern organizations? Explain any Five reasons. (5)
- How does Supply Chain Management (SCM) integrate into an ERP system, and what are its key functionalities? (5)
- What are some challenges/Issues faced during ERP implementation? Explain any Five. (5)

Q.2. Attempt any Two

- What are the benefits of having a centralized database in an ERP system? (5)
- How does BPR differ from BPM? Explain any three aspects on which we can differentiate. (5)
- What is the role of cloud computing in modern ERP systems and how it helps to improve business operations? (5)

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Midterm Test 2024-25(First Semester)

Class- SYMCA Course - MCPEC2006 Big Data Analytics Date- 07/10/2024 Max Marks- 20

Q1 Attempt Any Two

- a) Define big data. Explain the main components of Hadoop Eco system. (5)
- b) What are the issues and challenges of big data? (5)
- c) Explain the characteristics of big data analytics. (5)

Q2. Attempt Any Two

- a) Enlist any five commands used in HDFS? (5)
- b) Explain data ingest with Flume and Sqoop? (5)
- c) Explain blocks, name node and data node in HDFS. (5)

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Midterm Test 2024- 25 (First Semester)

Class – SYMCA

Date –07/10/2024

Subject – MCPCC2015: ASP.Net and C#

Max. Marks - 20

Q.1. Attempt Any Two

- a) What is .Net Framework? Explain its all components with proper diagram. (5)
- b) Difference between Grid Layout and Liquid Layout. (5)
- c) Explain Visual Studio IDE. (5)

Q.2. Attempt Any Two

- a) Describe any 5 Control Statements in C# with example for each. (5)
- b) Explain Navigating Among Web Pages with all possible 4 ways. (5)
- c) Write a note on Type Conversion in C#. (5)