



(Following Paper ID and Roll No. to be filled in your Answer Book)

**PAPER ID : 214320**

Roll No. 

--	--	--	--	--	--	--	--	--	--

**M. C. A.**

**(SEM. III) (ODD SEM.) THEORY  
EXAMINATION, 2014-15  
INTERNET & JAVA PROGRAMMING**

Time : 3 Hours]

[Total Marks : 100

- Note:**
- (1) Attempt all Questions.
  - (2) All Questions carry equal marks.

- 1 Answer any **four** of the following : **(5X4=20)**
- a) Define video conferencing. Explain the type of video conferencing.
  - b) Define Internet. Explain how Internet is different from extranet.
  - c) What is the Thread ? Explain the use of synchronized block and method in multithreading programming of Java.
  - d) What is E-Mail ? Explain how E-Mail travels from sender to destination host.
  - e) Define a package. Explain pre-define and user define package.

2 Answer any **two** of the following : (10X2=20)

- a) What is Constructor ? Why constructor does not have return type ? Explain it with an example.
- b) What is polymorphism ? Explain dynamic and static polymorphism in Java with example.
- c) What is RMI ? Explain RMI architecture with block diagram.

3 Answer any **two** of the following : (10X2=20)

- a) What is the difference between Interface and Abstract Class ? Explain with example.
- b) Write short notes on any **two** of the following :
  - 1. Wrapper Classes
  - 2. Abstraction
  - 3. Encapsulation.
- c) What do you understand by event handling in Java ? Explain mouse, keyboard or windows events with example

4 Answer any **two** of the following : (10X2=20)

- a) What is Java Bean ? What are the advantages of Java Bean ? Write the difference between Java Bean and Enterprise Java Bean.
- b) What do you mean by Socket ? Write a small client/ server Socket based program in Java.
- c) What is JDBC ? Explain types of Java driver available for database connectivity

5 Answer any two of the following : (10X2 = 20)

- a) Define Servlet. Explain the life cycle of Servlet. Write a small login page using Servlet.
- b) What do you mean by Session Tracking ? Explain all session tracking techniques with example of one of them.
- c) What do you mean by ServletContext ? How it is different from ServletConfig explain with an example?

M. C. A.  
(SEM. III) (ODD SEM.) THEORY  
EXAMINATION, 2014-15  
INTERNET & JAVA PROGRAMMING

Time : 3 Hours] [Total Marks : 100

- Notes: (1) Attempt all Questions  
(2) All Questions carry equal marks.

4 Answer any four of the following (5X4=20)

- a) Define video conferencing. Explain the type of video conferencing.
- b) Define Internet. Explain how Internet is different from extranet.
- c) What is the Thread ? Explain the use of synchronized block and method in multithreading programming of Java.
- d) What is E-Mail ? Explain how E-Mail travels from sender to destination how.
- e) Define a package. Explain pre-define and user define package.