

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

M.Sc.(Computer Science) (Sem.-2)
ADVANCED JAVA PROGRAMMING

Subject Code : MSC-201

M.Code : 71445

Date of Examination : 04-07-22

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. **SECTIONS-A, B, C & D** contains **TWO** questions each carrying **TEN** marks each and students has to attempt any **ONE** question from each **SECTION**.
2. **SECTION-E** is **COMPULSORY** consisting of **TEN** questions carrying **TWENTY** marks in all.

SECTION-A

- 1) Write the HTML to provide a form that collects names and telephone numbers. The phone numbers must be in the format ddd-ddd-dddd. Write a servlet that checks the submitted telephone number to be sure that it conforms to the required format and then returns a response that indicates whether the number was correct.
- 2) What is a session? How can a servlet determine whether a session object exists for a client request? Explain.

SECTION-B

- 3) Create a simple java bean having bound and constrained properties.
- 4) What do you mean by the concept of persistence? Explain in detail.

SECTION-C

- 5) What are the steps involved to make work a RMI program? Explain and also illustrate with the help of a program.
- 6) What is the role of stub in RMI? Explain in detail.

SECTION-D

- 7) How can we use Java Beans in JSP? Explain with suitable example.
- 8) List and explain the scripting tags available in JSP with the help of a program.

SECTION-E

9) Answer the following :

- a) What is RMI?
- b) What are the purposes of the doGet, doPost and doPut methods of the HttpServlet class?
- c) What is a cookie?
- d) Describe RMI client.
- e) What is JSP?
- f) What is the use of page and include directive tags in JSP?
- g) Which protocols are used in JavaMail API?
- h) List the interfaces available in the java.beans package.
- i) What do you mean by introspection?
- j) What do you mean by Java Beans?

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.