Roll No. :

Total No. of Questions: 91

[Total No. of Pages : 4

67056-N

M.C.A. 2nd Semester (2 Year Course) Examination, July-2021

(w.c.f. 2020-21)

ADVANCE OBJECT TECHNOLOGY

Paper-20MCA22C1

Time: Three Hours]

[Maximum Marks : 80

https://www.mdustudy.com

https://www.mdustudy.com

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note: Attempt five questions in all, selecting one question from each Unit. Q. No. 1 is compulsory.

- (a) Write an example of XML tag containing element and attribute.
 - (b) What do you mean by implied attribute in XML?
 - (c) Name any four implicit objects in JSP.
 - (d) How Print Writer is different from Servlet-Output Stream ?
 - (e) What is bean persistence?

67056-N_600

(1) RD-3082 P.T.O.

_ _ _ _

- (f) Which package(s) are used for remote method invocation?
- (g) List two disadvantages of struts framework.
- (h) What can be different methods that can be used to track information about a particular client while using stateless connection protocols?

 2×8=16

Unit-I

2. (a) What is DTD? Why do we use it? Explain different components of DTD. Write the DTD for the XML file containing following information:

<last>Sharma</last>
</name>

<emailID>sharmarohit@gmail.com

<phoneNumber>9876543210

</phoneNumber>

<DOB>

<year>1987</year>

<month>June</month>

<day>23</day>

</DOB>

</Cricketer>

67056-N_600

(2)

RD-3082

</emailID>

https://www.mdustudy.com

- (b) Explain different data types used in Javascript with examples. 10,6
- 3. (a) What is DOM in XML? How is it different from XML schemas?
 - (b) How does Javascript may be invoked and call global variable? Give example. 10,6

Unit-II

- 4. (a) How are Swing components different from AWT components? Explain the basis of the use of CheckButton or RadioButton for getting input from user.
 - (h) What is BDK introspection? Explain its use in Java programming. 10.6
- 5. (a) What are JTabbed Panes used in Swing?
 Write a short code of creating two tabbed
 panes with different component(s) placed
 on each.
 - (b) How are Applets related to Swing components?

Unit-III 16 each

https://www.mdustudy.com

https://www.mdustudy.com

6. What is a Servlet Program? How does it use HttpRequest and HttpResponse objects? Write code for a servlet that takes two values as input from a form and can show the result of mathematical operations of +, -, × and +.

67056-N_600 (3) RD-3082 P.T.O.

7. What are the differences between a session and a cookie? How can we create and delete a cookie? Show by suitable program(s).

Unit-IV

- 8. (a) Write short notes on the following:
 - (i) Actions elements
 - (ii) Directive elements
 - (iii) Declarations elements
 - (iv) Scriptlets elements 2½×4=10
 - (b) What are the various memory usage considerations during the use of servlets and JSP code ? Explain.
- 9. (a) What is a custom tags.in JSP? What are the components that make up a tag library in JSP?
 - (b) Write details on the Struts technology, its framework and how do client machine communicate with the server machine in this environment. 10,6

67056-N_600

(4)

RD-3082