D 14642

(Pages : 3)

Name.....

Reg. No.....

Maximum: 80 Marks

FIFTH SEMESTER B.Voc. DEGREE EXAMINATION, NOVEMBER 2016

Software Development

SDC 5IT 18 (E2)-J 2EE

Time : Three Hours

Part A

Answer **all** questions. Each question carries 1 mark.

(b) initialize(), service(), destroy().

(d) init(), service(), delete().

- 1. MVC stands for _____.
- 2. Which of the following code retrieves the name and version of the protocol used ?
 - (a) Header.getProtocol(). (b) Response.getProtocol().
 - (c) Request. getProtocol(). (d) None of the above.
- 3. Which of the following is the correct order of servlet life cycle phase methods ?
 - (a) init(), service(), destroy().
 - (c) init(), execute(), destroy().
- 4. When service() method of servlet gets called ?
 - (a) The service() method is called when the servlet is first created.
 - (b) The service() method is called whenever the servlet is invoked.
 - (c) Both of the above.
 - (d) None of the above.
- 5. Where filters are defined ?
 - (a) In the deployment descriptor file web.xml.
 - (b) In the jsp pages.
 - (c) Both of the above.
 - (d) None of the above.
- 6. Which of the following is an implicit object?
 - (a) pageContext. (b) servletContext.
 - (c) httpContext. (d) sessionContext.

Turn over

- 7. A stored procedure is _____.
 - (a) A group of SQL statements that form a logical unit and perform a particular task.
 - (b) Stored procedures can be called using CallableStatement class in JDBC API.
 - (c) Both of the above.
 - (d) None of the above.
- 8. After executing an SQL query using Statement object, the data retrieved from the database holds in ______.
 - (a) Result set. (b) JDBC driver.
 - (c) Connection. (d) Statement.
- 9. SessionFactory is a thread-safe object. (True/False) :
- 10. What types of Dependency injection does spring supports?
 - (a) Constructor based, Setter based.
 - (b) Constructor based, Setter based, Getter based.
 - (c) Setter based, Getter based, Properties based.
 - (d) Constructor based, Setter based, Properties based.

 $(10 \times 1 = 10 \text{ marks})$

Part B

Answer any **eight** questions, not exceeding **a paragraph** of 50 words. Each question carries 2 marks.

- 11. Define three tier architecture.
- 12. How sendError method works?
- 13. For what purpose doGet() method of a servlet used.
- 14. How to read http header information in servlet?
- 15. What are the advantages of JSP over static HTML?
- 16. What are JSP implicit objects?
- 17. What is session attribute?
- 18. What is prepared statement?
- 19. How do you update a result set?
- 20. What is Hibernate?
- 21. Which method is used to update the state of the given instance from the underlying database?
- 22. What is a Dispatcher Servlet ?

 $(8 \times 2 = 16 \text{ marks})$

Part C

Answer any six questions, in a page of 250 words. Each question carries 4 marks.

- 23. What are the components of J2EE application ?
- 24. Explain about getHeader(), getParameter() and getProtocol() functions.
- 25. Explain the working of sendRedirect() method with an example.
- 26. What is the difference between config Object and pageContext Object ?
- 27. How do you implement hit counter in JSP?
- 28. What are the basic steps to create a JDBC application ?
- 29. Which method is used to add a criteria to a query and explain the method ?
- 30. What are the different bean scopes in spring?
- 31. What are the advantages of spring framework?

 $(6 \times 4 = 24 \text{ marks})$

Part D

Answer any **two** questions, not exceeding **four pages**. Each question carries 15 marks.

- 32. Explain the purpose of the following functions :
 - (a) getRemoteAddr(). (b) getRemoteHost().
 - (c) getRemoteUser(). (d) getServletPath().

Or

- 33. Explain with example, the conditional statements and loop statements in JSP.
- 34. Explain JDBC driver and driver management in detail.

Or

35. What are the three states of a Hibernate Persistence object ? Explain each state with necessary details.

 $(2 \times 15 = 30 \text{ marks})$