Program Name: DBS TA Training Program
Assessment: Final Post Assessment - All Modules
Modules Covered: Four (4) - SpringBoot with Maven, Angular, Maria DB and Linux Fundamentals &
Shell Scripting
Question Types: Multiple Choice Questions, True & False, Write the answer
No. of Questions: 40
Time Alloted: 2 hours and 30 minutes

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1. Which of the following is not a valid Annotation when using SpringBoot application?

    a. @EnableAutoConfiguratin
    b. @SpringBootApplication
    c. @EnbaleHibernate
    d. @Configuration

2. Which among the following is not a valid starter dependency using Spring Boot?

    a. Spring-boot-starter-data-jpa
    b. Spring-boot-starter-hibernate
    c. Spring-boot-starter-jdbc
    d. Spring-boot-starter-aop

3. Which of the following statements are true regarding usage of Spring boot dev tools

    a. Dev tools should only be added as dependency during development and not in
    the production mode
    b. Applications using dev tools enable server restart on code changes and disable
    template caching
    c. Devtools dependency will generate the setters, getter, toString and hashcode
    method automatically
    d. Devtools is primarily used to connect to in memory database.

4. Which of the following is not a valid life phase of Maven

    a. Validate
    b. Build
    c. Install
    d. Deploy

5. Given a list of numbers [3, 4, 2, 6, 8, 10, 12, 15, 20], write a function to filter out all the
even numbers using Lambda expression

6. Given a list of numbers [56, 23, 78, 12, 66, 45, 89], write a function to print the sun of all
the numbers using reduce function

7. Given a list of numbers [45, 40, 32, 12, 67, 88, 45, 24, 19], write a function to, filter out
all the numbers divisible ty 4

8. Which annotation use used to specify the bean as dependency in case there are multiple bean of same type

      a. @Repository
      b. @Component
      c. @Qualifier
      d. @Component

9. What is the use of BOM used for in case of Maven

      a. Centralize the dependency version
      b. The scope of the project which includes the bom should be import
      c. The BOM facilitates the version management for families of related modules
      d. The child project cannot override the versions once refer to the BOM dependencies

10. Which of the below are valid ways to handle exceptions which using Spring REST

      a. @HandleException
      b. @ControllerAdvice
      c. @Component
      d. @ExceptionHandler

11. Which of the following statements are true regarding HTTP status codes

      a. 400 series gives an indication that the exception is on the server side and not on the client side
      b. 404 indicates that the user is not authenticated with the system and has passed invalid credentials
      c. 304 indicates that there was an exception on the client side and the server side code is working fine
      d. 200 series indicate that the request for successfully processed.

12. In a one to many relationship which of the following statements are true

      a. The owner of the relationship is on the many side of the relationship
      b. The mappedBy attribute should be added on the many side of the relationship
      c. The one side of the relationship will have to be annotated with @JoinColumn
      d. The many side of the relationship should be annotated with @JoinColumn

13. Which is not a valid entity state in Hibernate
      a. Transient
      b. Detached
      c. Persistent
      e. Saved

14. In a typescript file, which are not a valid constructors
    a. constructor(private name?:string, private int"age){}
    b. constructor(name:string, int: age){}
    c. Employee(String name, int age){}
    d. constructor(name:string, age:number, salary?:number){}

15. In which cases, the "this" does not bind to the context when using arrow function

    a. Inside function expression
    b. Inside method
    c. Inside event handlers
    d. Inside inner functions

16. A Service should be included in the following section of NgModule

    a. Bootstrap
    b. Imports
    c. Declaration
    d. Providers

17. Which of the following statement is true regarding Observable

    a. Observables are only executed when subscribed
    b. Observable should be unsubsctibed in the ngOnChanges life cycle hook method
    c. Observables need not be unsubscribed
    d. Observables should be unsubscribed and should be done inside the ngOnDestroy
    life cycle hook method

18. In which section of appModule, should be pipes be declared

    a. Imports
    b. Providers
    c. Declarations
    d. Pipes

19. Which of the following is not a valid function to rebind the value of "this" keyword

    a. Call
    b. Apply
    c. Fill
    d. Bind

20. Which is not a valid decorator in Angular

    a. @Component
    b. @Injectable
    c. @Service
    d. @NgModule

21. How will you redirect STDERR in linux?
   a. 2 >/dev/null
   b. &> error.txt
   c. a only
   d. All of the above

22. How to print last line of a file?

   a. sed -n '$ p' file.txt
   b. tail -n file.txt
   c. sed '$ p' file.txt
   d. none of the above

23. What is the significance of /usr/local?

   a. Contains locally installed files
   b. contains software packages installed from source
   c. All of the above
   d. None of the above

24. Which command functions like the man –f command.

   a. apropos
   b. whatis
   c. which
   d. none of the above

25. What does the following command do? $ kill %2

   a. kills job number 3
   b. kills the second background job
   c. no such command
   d. kill all foreground & background jobs

26. Which of the following command will be used to locate those files that have not been modified for more than 200 days?

   a) find . -mtime 1
   b) find . -mtime +200 -print
   c) find . -mtime -200 -print
   d) none of the above

27. What is the use of $ in awk script?

    a.For accessing the variables
    b.Used for selecting fields
    c. a and b
    d.None of the above

28. Which of the following pattern is used for extracting a substring using expr?
    a) //( )
    b) \(. .\)
    c) (. .\)
    d) \\(

29. The default permissions for a normal file in UNIX is _____

    a) 777
    b) 666
    c) 000
    d) 644

30. What is $? in Linux?

    a. get the exit status of a function
    b. exit status of a command
    c. All of the above
    d. b only

31. The ------------------ clause can be given for an updatable view to prevent inserts or updates to rows except those for which the WHERE clause in the select_statement is true.

    a. With check option
    b. Sql Security
    c. Where
    d. Having

32. Select 10 in (10,20,30,NULL);
    a. 10
    b. NULL
    c. 1
    d. 0

33. Functions are DETERMINISTIC when they always return the same value for the same input
    a. TRUE
    b. FLASE

34. SELECT TO_DAYS('0000-01-01');
      a. 0
      b. ERROR
      c. NULL
      d. 1

35. Which statements are true for triggers
      a. Can return a resultset.
      b. Triggers are not activated by foreign key actions.
      c. Triggers are always executed for each row
      d. The RETURN statement is not permitted

36. Write a sql query to validate an email and website (Regular Expression)

37. Create Workingdays_calendar table with Date, Weekday, Month number, Quarter and year using procedure and insert data into the table between start date and end date in same procedure .
Declare Jan 1st and Dec 25st as holidays, Saturdays and Sundays as weekends

38. How to fetch alternate records from a table?

39. Delete duplicate rows and give the count of duplicates removed without using distinct keyword

40. Display the Salesperson who is getting 3rd highest salary