



PRACTICE PAPER

$$\begin{array}{r} \text{शालेचा शिक्का} \\ 5 + 1 + 1 = \frac{7}{20} \\ \hline 5 + 5 + 10 \end{array}$$

Kontius

Hollow craft sticker

Centre No.

केंद्र क्रमांक

Seat No.

बैठक

क्रमांक

In Figure

अंकात

In Words

अक्षरात

Candidate's

Signature

परीक्षार्थीची सही

Supervisor's

Signature

पर्यवेक्षकाची सही

Hollow craft sticker

बारकोड ह्या चौकटीत चिकटवा.

Paste the barcode sticker here.

बारकोड संबंधी सुचना

- 1) विद्यार्थ्यांनी प्रथम पर्यवेक्षकांकडून बारकोड स्टिकर घ्यावे.
- 2) बारकोड वरील बैठक क्रमांक व विषय बरोबर असल्याची खात्री करून घ्यावी.
- 3) बारकोड स्टिकर त्यासाठी दिलेल्या जागेमध्ये घडी पडू न देता चिकटवावा.
- 4) बारकोडवर अन्य कोणतेही लिखाण करू नये. केल्यास परीक्षेतील गैरमार्गाचा प्रकार मानण्यात येईल.
- 5) उत्तरपत्रिकेच्या मुखपृष्ठावरील अन्य माहिती, विहीत जागेत लिहावी.

SSC / HSC

फक्त UID कोडसाठी जागा
(पर्यवेक्षक वापरासाठी)

SSC / HSC

Subject/ विषय	
Paper/ पेपर	
Date/ दिनांक	
Language of Answer उत्तर लेखनाची भाषा	

Supplements Attached		
Main Answer Book	No. of Supplements	Total in Figure
1	+	=

Specific remarks of centre conductor regarding malpractices (In Red Ink) उपेक्षारंकडून घडलेल्या गैरमार्गासंबंधी केंद्र संचालकाचे अभिप्राय (लाल शाईमध्ये)

	Marks in Figure	Marks in Word	Signature	Appt. No.
Examiner				
Moderator				
Chief Moderator				

Q. No.	Examiner	Moderator	Chief Moderator
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
Total In Figure			
Total Words			

Signature			
Appt. No.			

section A

Q. No.

(b)

Identify DF the following is not a valid inheritance strategy in JPA?

a) single-Table b) TABLE_PER_CLASS

Ans → c) JOINED D) MULTI-TABLE

→ d) MUTUAL TABLE

Ans \Rightarrow a) It is dependency design pattern that implements the inversion of control (IOC) pattern software applⁿ.

3)

Ans \Rightarrow d) interface

4)

Ans → Angular JS is ~~JavaScript~~ framework

5)

ANS → A) style

section - B

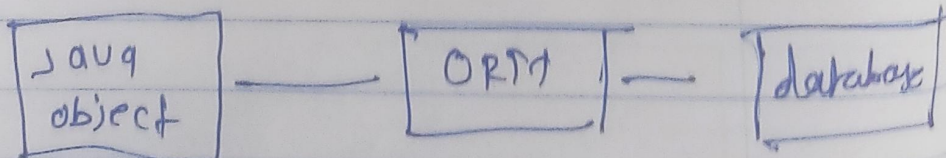
a) What is ORM framework and how is JPA related to that?

⇒ - ORM framework is object mapping technique, it is used to converting data betn java objects and relational databases.

- ORM consist Converts data betn two incompatible type systems like java and mysql. Such that each model class become a table in our database.

Java Persistence API (JPA) is a specification that defines how the data persist in a java appl.ⁿ

Object Relation Mapping (ORM) allows us to interact with a relational database with any database fro ex- SQL



Q. No.
 3) What is Spring Boot? Explain its features.

→ Spring Boot is a lightweight Java framework which is used to develop Java applications, and microservices, with the Spring Framework faster and easier through core capabilities which is as follows.

1) Auto configuration

2) An opinionated approach to Configuration.

3) The ability to create stand alone application.

Features of Spring boot is

- Spring boot is to develop Java appⁿ
- It is lightweight Java framework.
- Spring boot provides predefined templates to develop web / Java appⁿ.
- It is easy to test.
- Spring boot provides loosely coupling.

Section C

Q1) Perfect numbers in JavaScript.

<script>

→ Function isPerfect (number) {

if (number <= 0)

{

return false;

}

let sum = 1;

for (let i = 2; i <= Math.sqrt(number); i++)

{

if (number % i == 0)

{

sum += i;

if (i !== number % i)

{

sum += number / i;

}

}

} return sum === number;

}

console.log(isPerfect(28));

console.log(isPerfect(6));

console.log(isPerfect(12));

</script>

a) HTML page for all list tags

```
<html>
```

```
<body>
```

```
<h1> An unordered list </h1>
```

```
<ul>
```

```
<li> coffee </li>
```

```
<li> Tea </li>
```

```
<li> Green Tea </li>
```

```
</ul>
```

```
<ol>
```

```
<li> one </li>
```

```
<li> Two </li>
```

```
<li> Three </li>
```

```
</ol>
```

```
<dl>
```

```
<dt> Dosa </dt>
```

```
<dt> Sambar </dt>
```

```
<dt> milk </dt>
```

```
</dl>
```

```
</body>
```

```
</html>
```