

JV-003-003507]

JV-003-003507 Seat No. _____

[Contd....

B. C. A. (Sem. V) (CBCS) Examination

October - 2019

CS-25 : Advance JAVA Programming (J2EE)

(New Course)

Faculty Code: 003 Subject Code: 003507

Time:	$2\frac{1}{2}$	H	ours] [Total Marks	: 70
1 (A	.) 4	Atte	mpt the following:	4
`	•	(1)	The logic resides at the middle tier.	Applocation Logic
	((2)	Which API provides server-side software component level functionality in a J2EE application?	EJB
	((3)	Which package needs to be imported for implementing JDBC API in a JDBC Program?	java.sql
	((4)	Which interface is used to call stored procedure in JDBC?	CallableStatement interface
(B	5) 4	Attempt any one of the following:		2
	((1)	Define the term JavaMail.	
	((2)	What is a Web Container?	
(C	;) ₁	Attempt any one of the following:		3
	((1)	What is J2EE? Explain J2EE Platform using J2EE APIs.	
	((2)	List and explain any two types of JDBC drivers.	
(Σ)) ₁	Attempt any one of the following:		5
	((1)	What are Enterprise Architecture Styles? Explain	
			N-Tier Architecture in detail using appropriate	
			diagram.	
	((2)	Explain the JDBC-MySQL connectivity stepwise	
			in detail with example.	

1

2	(A)	Attempt the following:			
		(1)	Astub for a remote object acts as a client's		
			local representative or proxy for the remote object		
			in RMI.		
		(2)	RMI stands forRemote Method Invocation		
		(3)	Which package needs to be imported for a servlet?	javax. servlet	
		(4)	<u>web.xml</u> file is known as a Deployment		
			Descriptor.		
	(B)	Atte	empt any one of the following:	2	
		(1)	Write a note on stub and skeleton.		
		(2)	What is a servlet?		
	(C)	Atte	empt any one of the following:	3	
		(1)	What is RMI? Explain RMI Architecture in detail.		
		(2)	Explain session mechanism in Servlet.		
	(D)	Atte	empt any one of the following:	5	
		(1)	Explain the Servlet Lifecycle in detail.		
		(2)	Write a Servlet to indicate page counter or the		
			number of times user has visited the page.		
3	(A)	Atte	empt the following:	4	
		(1)	tag allows to write Java code into JSP	Scriptlet tag (<% %>	
		(0)	file.		
		(2)	Which tag is used as start and end JSP in a JSP		
		(0)	page? start with <% tag and ends with%> tag		
		(3)	Which tag is used for plugin mechanism in JSP		
		(4)	page? <jsp:plugin></jsp:plugin>		
		(4)	<u>JavaBean</u> are special classes that are serializable		
			having a zero-argument constructor and allow access to properties using getter and setter methods		
			and can be reused in a J2EE application.		
	(B)	Atte	empt any one of following:	2	
	\ -/	(1)	What are including and forwarding techniques of		
		` /	JSP Pages?		
		(2)	Define: JSP Implicit Objects.		
JV-	-003-0	03507	[Cor	ntd	

	(C)	Atte	empt any one of the following:	3
		(1)	List and explain JSP Action Elements.	
		(2)	Write a note on JavaBean Properties and Methods.	
	(D)	Atte	empt any one of the following:	5
		(1)	Explain Life cycle of a JSP page in detail with	
			its methods.	
		(2)	Explain Directive Elements of JSP in detail.	
4	(A)	Atte	empt the following:	4
		(1)	The full form of EJB isenterprise java bean	
		(2)	In MVC, the defines java bean classes	
			that internally define the system state and actions	
			to change that state.	
		(3)	ORM stands for Object Relation Mapping	
		(4)	provides mapping information in	
			Hibernate. Hibernate mapping file	
	(B)	Atte	empt any one of the following:	2
		(1)	Define the term MVC.	naged persistent
		(2)	C: 41 C 11 C C DMD 1 CMD	r-managed persistence
	(C)	Atte	empt any one of the following:	3
		(1)	Write a note on Types of EJB.	
		(2)	Explain Hibernate configuration file.	
	(D)	Expl	lain any one :	5
		(1)	Explain the benefits of EJB.	
		(2)	What is Annotation in Hibernate? Explain the	
			Hibernate inheritance in detail.	
5	(A)	Atte	empt the following:	4
		(1)	Spring is a lightweight, loosely coupled	
			integrated framework for developing Enterprise	
			level Java applications.	
		(2)	IoC stands for Inversion of Control	
		(3)	What is the full form of AOP? Aspect Oriented Pro	gramming
		(4)	Struts based applications use in design	
			pattern of an application. Front Controller	
JV-003-003507		03507	[Cor	ntd

(B) Attempt any one of following:

(1) Give the definition of Spring Context.
(2) What is Struts?

(C) Attempt any one of following:

(1) Write a note on AOP in Spring.
(2) Write a note on the Properties File in a Struts application.

(D) Attempt any one of following:

(1) Explain Spring Architecture in detail.

Explain Struts Flow of Control.

JV-003-003507]

(2)