GOVT. D.B. GIRLS' P.G. (AUTONOMOUS) COLLEGE RAIPUR CHHATTISGARH

SYLLABUS

OF

ADD-ON ADVANCE DIPLOMA

2020-21

Theory

Part A

	Title	Marks		
No.		Max.	Min.	Total
Paper-I	301- Programming in JAVA	50	17	50

Practical

Part B

	Name of The Practical	Marks	
		Max.	Min.
Practical-I	302- Project	50	17
Practical-I	303- Practical (Practical based on 301 Programming in JAVA)	50	17

APPROVED BY THE BOARD OF STUDIES ON

NAME	IN THE CAPACITY OF	SIGNATURE
Dr. MADHU SHRIVASTAVA	CHAIRMAN	
Dr. SANJAY KUMAR	SUBJECT EXPERT (University Nominee)	
Shri . RAJU KHUNTTEY	SUBJECT EXPERT (Principal Nominee)	
Mrs. RASHMI SENGUPTA	MEMBER OF THE DEPARTMENT	
Mrs. KIRAN DEWANGAN	MEMBER OF THE DEPARTMENT	
Ku. SANDHYA SAHU	EX-STUDENT	

DEPARTMENT OF COMPUTER SCIENCE ADD-ON ADVANCE DIPLOMA

SESSION :2020-21 PAPER - I

301- Programming in JAVA

Maximum Marks: 50 Number of Units: V

Minimum Marks: 17

UNIT - I

Introduction:

Genesis of java, importance to the Internet, overview of features.

OOP:

OOP features, data types, control structures, arrays, methods and classes, nested & inner classes, string and String Buffer class, Wrapper Class, vectors,

UNIT-II

Inheritance:

Basics type, method Override, using abstract and final classes, using super.

Packages and Interfaces:

Defined CLASSPATH, importing packages, implementing interface.

UNIT - III

Exception Handling:

Fundamental: exception types, using try and catch, throwing exceptions, defined exceptions.

Multithreaded Programming:

Java spread model, creating threads, thread priorities, synchronization. Suspending resuming and stopping threads.

UNIT-IV

Input/Output:

Basic Streams, Byte and Character Stream, predefined streams, reading and writing from console and files. Using standard Java Packages (lang, util, io)

JDBC:

Setting the JDBC connectivity with backend database.

UNIT-V

Applets:

Fundamentals, life cycle, overriding update, HTML APPLET tag, passing parameters. Developing single applets.

Introduction to AWT:

Window fundamentals, creating windowed, programs waking with graphics, using AWT controls, menus. Delegation event model, handling mouse and keyboard events.

BOOKS RECOMMENDED:

1. Java complete reference - by Patrick naughten & Mesut Scpddt. [TMH]

2. Java Primer - by E.Balaguruswami3. Java Programming - Khalid Mughal

Signature of Chairman

Signature of Member(Subject)

DEPARTMENT OF COMPUTER SCIENCE ADD-ON ADVANCE DIPLOMA

SESSION: 2020-21 PAPER - II 302- Project

Maximum Marks: 50 Minimum Marks: 17

Distribution of Marks

Distriction of Marie			
Sessional	-	10	
Project	-	30	
Viva	-	10	

DEPARTMENT OF COMPUTER SCIENCE ADD-ON ADVANCE DIPLOMA

SESSION: 2020-21 PAPER - II

303- Practical (Practical based on 301)

Maximum Marks: 50 Minimum Marks: 17

Distribution of Marks

Sessional	- 10
Practical	- 30
Viva	- 10

List of Practicals: Java

- Q1. Write a Program to add two numbers.
- Q2. Write a Program to find maximum of two numbers using if.
- Q3. Write a Program to check even and odd numbers.
- Q4. Write a Program to print table of a number using for loop.
- Q5. Write a Program to demo switch case.
- Q6. Write a Program to calculate factorial of a number using recursion.
- Q7. Write a Program to print and copy a string.
- Q8. Write a Program to print

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* *

* * *

Where no of rows is passed as an argument.

- Q9. Write a Program to print
 - * * *
 - * *
 - *

Where no of rows is passed as an argument.

Signature of Chairman

Signature of Member(Subject)

Q10. Write a Program to print

Where no of rows is passed as an argument.

- Q11. Write a Program of sorting list of numbers stored in array.
- Q12. Write a Program of method overloading.
- Q13. Write a Program of constructor overloading.
- Q14. Write a Program of add method inside class.
- Q15. Write a Program of returning value to the caller.
- Q16. Write a Program where function with argument.
- Q17. Write a Program a program of inheritance.
- Q18. Write a Program of static variables.
- Q19. Write a Program of object as parameter.
- Q20. Write a Program of Alphabetically ordering of string.
- Q21. Write a Program of using SUPER keyword.
- Q22. Write a Program of calling variables of super class.
- Q23. Write a Program of method overriding.
- Q24. Write a Program of Abstract class.
- Q25. Write a Program of implementing interface.
- Q26. Write a Program of implementing multiple inheritance.
- Q27. Write a Program of uncaught Exception.
- Q28. Write a Program of using try and catch statement.
- Q29. Write a Program of multiple catch.
- Q30. Write a Program of nested try catch.
- Q31. Write a Program of Nested try catch.
- Q32. Write a Program of throw statement.
- Q33. Write a Program finally statement.
- Q34. Write a Program of multithreading.
- Q35. Write a Program of thread priority.
- Q36. Write an Example Program of Applet.
- Q37. Write a Program of sum using Applet.
- Q38. Write a Program to draw polygon in Applet.
- Q39. Write a Program to draw face using various method of Applet.
- Q40. Write a Program to create three labels.
- Q42. Write a Program to create three buttons and add them to applet.
- O43. Write a Program of check box display a check bar.
- Q44. Write a Program of choice list.
- Q45. Write a Program to read the contents of file using Byte Stream.
- Q46. Write a Program to write the contents to a file using Byte Stream.
- Q47. Write a Program to copy the contents of one file to another using Byte Stream.