	ME .	. 2 Hours	WI OTEK ENG		UM MAF	RKS :	80			
_	ME	: 3 Hours					TT	TT	\Box	
IN	STRUCTIONS :			ENROLLMENT	№. : [
	2) Illustrate you3) Use of Non I4) Figure to the5) Assume suit	s are compulsory. or answers with neat Programmable Elect or right indicate full ma able additional data es & other similar ele	ronic Pocket Cal arks. if necessary.	culators is permissib		examin	ation ha			
						1		! /	Marks	
Q. 1	Attempt A	NY TEN.				1	EXA	3/	(20)	
	a) Enlist any to What is Rec) What is prod) State the une) Enlist any to	four classes interfa emote Method Invo	ocation? cacket. ces. ng JDBC. Seans. ween applet & s) (ii) setText () servelet over C	swing. CGI. o points)	95.					
	my Emisterry	Tour Mile tags in o	or with descrip	MOII.						
Q.		NY THREE.							(12)	
	b) Explain facc) Explain dad) What is se	ance methods to co ctory methods in do tabase client/serve rialization? Explair plication builder to	etail and write il er methodology n in brief.	ts any two uses.	y two.					
Q. 3	Attempt A	NY THREE.							(12)	
)	a) Demonstrateb) Explain JDBc) Explain thed) Explain Tab	te the use of TCP/ BC-ODBC bridge of term 'object persion tole in detail with the concept of servlet	with ODBC driv stence' and its se help of progra	er. uses. am.	m. Also	write it	s adva	ntages.		
Q. 4	Attempt A	NY THREE.							(12)	
	a) Explain RMb) Explain thec) Explain eachd) Explain JSf	Il architecture in de use of combobox ch steps which are P. Also demonstra	with the help o performed to rate the use of JS	un a servelet prog SP using java prog	ram. ram.					
Q. 5	Attempt A	NY TWO								
	a) Explain in o	detail basic & Two- client server archit	-Tier client servitecture using Ri	er architecture with MI.	neat &	clean	diagrar	n.	(12)	
Q. 6	a) Explain tre	NY TWO. e in detail with the detail servelet API. P syntax & semant		am.					(12)	,

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ENROLLMENT NO.:

GOVERNMENT POLYTECHNIC, SADAR, NAGPUR

(An Autonomous Institute of Government of Maharashtra)

EXAMINATION 14 000 TERM

COURSE NAME : ADVANCED JAVA COURSE CODE: IT1503

PROGRAMME

Diploma in Information Technology/Computer Engineering

TIME

MAXIMUM MARKS: 80

INSTRUCTIONS:

All questions are compulsory.

Illustrate your answers with neat sketches wherever necessary.

3) Use of Non Programmable Electronic Pocket Calculators is permissible.

Figure to the right indicate full marks

Assume suitable additional data if necessary.

Mobile phones & other similar electronic gadgets are strictly prohibited in

hall. examination

Marks

(20)

Q. 1 Attempt ANY TEN

- a) Define protocol. List any two protocols for communication.
- b) Draw the client server communication model.
- c) What are the limitations of using JDBC?
- d) What is Java API ? What are its uses?
- e) What is the serializable class?
- What is the use of object registry?
- g) What is JAR file? What are its uses?
- h) What is the use of BeanInfos interface?
- i) What are the uses of JApplet and JButton?
- List different servlet classes available with java.
- k) What are the uses of servlet.
- List and explain the different tags used in JSP.
- m) What is JSP? What are its uses?

Q. 2 Attempt ANY THREE

- a) What is session? How session can be created? What are its advantages?
- b) Explain the TCP/IP addressing in detail.
- c) What is JDBC driver? What are the different types of JDBC drivers available with JAVA.
- d) Explain following in detail.
 - (i) Stub (ii) Object Persistence.
- e) Write a Java program which is used to create a simple bean using BDK.

Q. 3 Attempt ANY THREE

(12)

- a) Ellaborate the JSP development model in detail.
- b) Illustrate the concept of CORBA with diagram in detail.
- c) What are the advantages and disadvantages of Java Bean? Explain.
- d) What is the difference between AWT and Java swing? Explain with example.
- e) Demonstrate the use of Rmiserver and RmiClient class with the help of java program.

Q. 4 Attempt ANY THREE

(12)

- a) Explain socket in detail. List different networking class and its uses.
- b) Draw and explain the architecture of RMI.
- c) What is win interface? Explain it in detail with example.
- Write a java program which creates a Generic servlet and read the servlet parameter.
- e) Explain the different JSP components in detail.

	2	(12)
1503		•
	Attempt ANY TWO Explain following methods with their use: i) Factory method ii) Instance method. Illustrate the common object request broker architecture (CORBA) in detail. List the features of Radio Button. Also write a program which uses this control in Java.	(12)
	Attempt ANY TWO What is socket? How to create server/client sockets? Explain JDBC API and JDBC drivers in detail. Write a program in Java by using Combo Box.	

GOVERNMENT POLYTECHNIC, SADAR, NAGPUR (An Autonomous Institute of Government of Maharushtra)

TERM EXAMINATION 14 EVEN

COURSE NAME		:	ADVANCED JAVA	COURSE CODE: III	1003
PROGRAMME		:	Diploma in Information Technology/Computer En	gineering	
TIME		:	3 Hours MA	AXIMUM MARKS : 80	
INSTR	UCTIONS :		ENROLLMENT NO.	:	
2) 3) 4)	Illustrate you Use of Non F Figure to the	r an Prog righ	compulsory. swers with neat sketches wherever necessary. rammable Electronic Pocket Calculators is permissible. It indicate full marks. additional data if necessary. other similar electronic gadgets are strictly prohibited insi		arks
				EVAL M	
Q. 1	Attempt A				(20)
a)			What are its parts? Give an example.	fa.us)	
ь)			tworking classes and it's associated interfaces (any	iour).	
c)	What is Pr				
d)			etch of two-tier database design.		
e) f)			persistence. for database connectivity using JDBC.		
g)			eserialization exceptions.		
h)			limitations of using JDBC.		
i)	What is Ja		_		
n			points of difference between Applet and Swing.		
			Developer Kit (BDK)?		
1)			of getText() and SetText() methods.		
m)	What is A				
Q. 2	Attempt				(12)
2)			xplain RMI architecture with a neat sketch.		
- 2			lication builder tools of Java Beans in detail.		
. c)			eps to create and run a servlet program and explain.		
d)	•		onents of JSP page in detail.		
e)	(i) Reading	g se	et in terms of : ervlet parameters dient requests through servlet.		
					(40)
Q. 3	Attempt A				(12)
			ization of RMI in detail.		
b)	Explain Ja (i) Constra	ava aine	Beans in terms of : d properties (ii) Customizers.		
c)	Write a pr	ogr	am to implement simple servlet program.		
d)	Describe	any	four JSP tags with an example.		
e)	Differentia	ate	between JSP and servlet (any four points).		
Q. 4	Attempt	AN'	THREE		(12)
a) a)			ages of Java Beans. Also explain JAR files in detail.		
b			erialization of RMI in detail.		
c			the Life cycle of a servlet in detail.		
d			syntax and semantics in detail.		
) Explain t				
, it	i) The jay	ax.	servlet.http package racking using JSP.		y

6

PR	OGRAMME	:	Diploma in COMPUTER ENGINEERING / INFORMATION TECHNOLOGY	
TIN	ΛE	:	3 Hours MAXIMUM MARKS: 80	=
INS	STRUCTIONS	•	ENROLLMENT NO. :	
	 All question Illustrate yo Use of Non Figure to th Assume su 	our Projer	are compulsory. answers with neat sketches wherever necessary. rogrammable Electronic Pocket Calculators is permissible. right indicate full marks. ble additional data if necessary. s & other similar electronic gadgets are strictly prohibited inside examination half.	
				Marks
Q. 1	Attempt	A٨	NY TEN.	(20)
			our classes interfaces listed in networking packages.	
	•		mote Method Invocation?	
	c) What is p			
			ses of datagram packet. our JDBC interfaces.	
			our limitations using JDBC.	
			omizers in Java Beans.	
	0.		vo difference between applet & swing.	
			se of (i) getText () (ii) setText ().	
	j) What is s	ess	sion tracking?	
	k) State any	tw	vo advantages of servelet over CGI.	
	 Differntial 	te t	between JSP & servelet. (any two points)	
	m) Enlist any	/ fo	our XML tags in JSP with description.	
Q. 2	2 Attempt	AΝ	NY THREE.	1421
	•		nce methods to create an Inet Address. Explain any two.	(12)
			tory methods in detail and write its any two uses.	
			abase client/server methodology.	
			alization? Explain in brief.	
			lication builder tool in Java Beans.	
0 2				
Q. 3			IY THREE.	(12)
			the use of TCP/IP socket in Java and explain.	
)			C-ODBC bridge with ODBC driver.	
J			term 'object persistence' and its uses.	
			le in detail with the help of program.	
	e) Explain th	e c	concept of servlet with the help of example program. Also write its advantages.	
Q. 4	Attempt A	AN	NY THREE.	(12)
	a) Explain R	МΙ	architecture in detail.	
			use of combobox with the help of program.	
			h steps which are performed to run a servelet program.	
	d) Explain JS	SP.	. Also demonstrate the use of JSP using java program.	
	e) Enlist four	CC	ore tags used in JSP with its description.	
Q. 5	Attempt	ΔΝ	IV TWO	
1			etail basic & Two-Tier client server architecture with neat & clean diagram.	(12)
	b) Implemen	nt c	client server architecture using RMI.	
	c) Explain J	ava	a Bean API.	
Q. 6				(12)
			an detail with the help of a program.	,
			etail servelet API.	
	c) Exhigin J	٥٢	syntax & semantics in detail.	

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ENROLLMENT NO. :

GOVERNMENT POLYTECHNIC, SADAR, NAGPUR

(An Autonomous Institute of Government of Maharashtra)

TERM EXAMINATION 44 000

COURSE NAME

COURSE CODE: IT1503

: ADVANCED JAVA

PROGRAMME

: Diploma in Information Technology/Computer Engineering

TIME

MAXIMUM MARKS: 80

INSTRUCTIONS:

All questions are compulsory.

Illustrate your answers with neat sketches wherever necessary.

3) Use of Non Programmable Electronic Pocket Calculators is permissible.

Figure to the right indicate full marks.

Assume suitable additional data if necessary.

Mobile phones & other similar electronic gadgets are strictly prohibited inside

hall. examin

Marks

(20)

Q. 1 Attempt ANY TEN

- a) Define protocol. List any two protocols for communication.
- b) Draw the client server communication model.
- c) What are the limitations of using JDBC?
- d) What is Java API? What are its uses?
- e) What is the serializable class?
- f) What is the use of object registry?
- g) What is JAR file? What are its uses?
- h) What is the use of BeanInfos interface?
- i) What are the uses of JApplet and JButton?
- List different servlet classes available with java.
- k) What are the uses of servlet.
- List and explain the different tags used in JSP.
- m) What is JSP? What are its uses?

Attempt ANY THREE Q. 2

(12)

- a) What is session? How session can be created? What are its advantages?
- b) Explain the TCP/IP addressing in detail.
- c) What is JDBC driver? What are the different types of JDBC drivers available with JAVA.
- d) Explain following in detail.
 - Stub (ii) Object Persistence.
- e) Write a Java program which is used to create a simple bean using BDK.

Q. 3 Attempt ANY THREE

(12)

- a) Ellaborate the JSP development model in detail.
- b) Illustrate the concept of CORBA with diagram in detail.
- c) What are the advantages and disadvantages of Java Bean? Explain.
- d) What is the difference between AWT and Java swing? Explain with example.
- e) Demonstrate the use of Rmiserver and RmiClient class with the help of java program.

Q. 4 Attempt ANY THREE

(12)

- a) Explain socket in detail. List different networking class and its uses.
- b) Draw and explain the architecture of RMI.
- c) What is win interface? Explain it in detail with example.
- d) Write a java program which creates a Generic servlet and read the servlet parameter.
- e) Explain the different JSP components in detail.

1503

Q. 5		Attempt ANY TWO	(12)
	a)	Explain following methods with their use: i) Factory method ii) Instance method.	
	b)	Illustrate the common object request broker architecture (CORBA) in detail.	
		List the features of Radio Button. Also write a program which uses this control in Java.	
Q. 6		Attempt ANY TWO	(12
	a)	What is socket? How to create server/client sockets?	
	b)	Explain JDBC API and JDBC drivers in detail.	
	c)	Write a program in Java by using Combo Box.	

GOVERNMENT POLYTECHNIC, SADAR, NAGPUR (An Autonomous Institute of Government of Maharushtra)

TERM EXAMINATION 14 EVEN

COURSE NAME		:	ADVANCED JAVA	COURSE CODE: III	1003
PROGRAMME		:	Diploma in Information Technology/Computer En	gineering	
TIME		:	3 Hours MA	AXIMUM MARKS : 80	
INSTR	UCTIONS :		ENROLLMENT NO.	:	
2) 3) 4)	Illustrate you Use of Non F Figure to the	r an Prog righ	compulsory. swers with neat sketches wherever necessary. rammable Electronic Pocket Calculators is permissible. It indicate full marks. additional data if necessary. other similar electronic gadgets are strictly prohibited insi		arks
				EVAL M	
Q. 1	Attempt A				(20)
a)			What are its parts? Give an example.	fa.us)	
ь)			tworking classes and it's associated interfaces (any	iour).	
c)	What is Pr				
d)			etch of two-tier database design.		
e) f)	•		persistence. for database connectivity using JDBC.		
g)			eserialization exceptions.		
h)			limitations of using JDBC.		
i)	What is Ja		_		
n			points of difference between Applet and Swing.		
			Developer Kit (BDK)?		
1)			of getText() and SetText() methods.		
m)	What is A				
Q. 2	Attempt				(12)
2)			xplain RMI architecture with a neat sketch.		
- 2			lication builder tools of Java Beans in detail.		
. c)			eps to create and run a servlet program and explain.		
d)	•		onents of JSP page in detail.		
e)	(i) Reading	g se	et in terms of : ervlet parameters dient requests through servlet.		
					(40)
Q. 3	Attempt A				(12)
			ization of RMI in detail.		
b)	Explain Ja (i) Constra	ava aine	Beans in terms of : d properties (ii) Customizers.		
c)	Write a pr	ogr	am to implement simple servlet program.		
d)	Describe	any	four JSP tags with an example.		
e)	Differentia	ate	between JSP and servlet (any four points).		
Q. 4	Attempt	AN'	THREE		(12)
a) a)			ages of Java Beans. Also explain JAR files in detail.		
b			erialization of RMI in detail.		
c			the Life cycle of a servlet in detail.		
d			syntax and semantics in detail.		
) Explain t				
, it	i) The jay	ax.	servlet.http package racking using JSP.		y

6

Q. 5 Attempt ANY TWO

(12)

- a) Write a java program which demonstrate the use of Datagram class to create server and client.
- b) What is Tree? Demonstrate the use of Tree with the help of java program.
- c) Write a java program which demonstrate the use of HttpServlet Request and HttpServlet Response classes.

Q. 6 Attempt ANY TWO

(12)

- a) Write a java program which demonstrate the use of JDBC and send queries through JDBC bridge.
- b) Write a java program which demonstrate the use of any four controls of swing package.
- c) Write a java program which creates a user registration form using JSP.

GOVERNMENT POLYTECHNIC, SADAR, TARO

(An Autonomous Institute of Government of Maharashtra)

ODD 2018 EXAMINATION

TERM COURSE CODE: IT1503 COURSE NAME : ADVANCED JAVA : Diploma in Information Technology **PROGRAMME** MAXIMUM MARKS: 80 3 Hours TIME ENROLLMENT NO. : INSTRUCTIONS ; 1) All questions are compulsory Illustrate your answers with neat sketches wherever necessary Use of Non Programmable Electronic Pocket Calculators is permissible Figure to the right indicate full marks Assume suitable additional data if necessary. Mobile phones & other similar electronic gadgets are strictly prohibited inside Marks (20)Attempt ANY TEN Q. 1 a) What is Networking? b) What is BDK? c) Explain CORBA. d) Explain JDBC application verses applets. e) What is servlet? f) What is object persistence? g) What is Three-Tier database? h) What are Jar files? i) Explain generic servlet. Explain RMI architecture. k) What is JSP? Explain benefits of servlet. m) Explain cookie. (12)0.2 Attempt ANY THREE a) Explain with suitable examples how to create menus in swings. b) Write a short note on any two drivers of JDBC. c) List four differences between TCP and UDP. d) Write a swing program containing a button with the caption "Now" and a textfield, on click of the button current date and time should be displayed in the text field. e) Write a JDBC program that accepts a table name and displays total number of records present in it. (12)Attempt ANY THREE Q. 3 a) Compare JSP and servlet. b) What is Java Bean? Explain with example. c) Explain the steps to execute a RMI program. d) Write TCP server program that returns factorial of a given integer number to a TCP client. e) What is the significance of URL? How it is used? (12)Attempt ANY THREE 0.4 a) Write a Java server page which displays value of m to the power of n (mⁿ) where m and n are accepted from numbers .html. b) Write servlet which accepts ROLL NO, NAME, and YEAR sent from a HTML documents (student.html) and display them on screen. Also give the code for student .html document. c) Write a program using JSP tags to compute square of numbers from 1 to 20. d) Write a program to add the nodes in JTree control. e) List various types of JDBC drivers. Explain JDBC-ODBC bridge driver.

Attempt ANY TWO

c) List and explain Beans API.

 a) Draw and explain the life cycle of servlet. b) Explain the following term of JSP:

i) Scriptlet ii) Declaration iii) Expression.

Q. 5

(12)

P.T.O.

Q. 6 Attempt ANY TWO

- a) What do you mean by serialization exceptions? Explain with example.
- b) Explain the usage of scrollbar control in swing.
- c) Explain following terms:
 - i) Factory methods ii) Instance method.

GOVERNMENT POLYTECHNIC, SADAR, NAGPUR

(An Autonomous Institute of Government of Maharashtra)

TERM EXAMINATIONEVEN 2018

COURSE CODE : IT501E COURSE NAME : ADVANCE JAVA PROGRAMME : Diploma in Information Technology/Computer Engineering MAXIMUM MARKS: 70 TIME : 3 Hours ENROLLMENT NO. : **INSTRUCTIONS:** 1) All questions are compulsory 2) Illustrate your answers with neat sketches wherever necessary 3) Use of Non Programmable Electronic Pocket Calculators is permissible 4) Figure to the right indicate full marks 5) Assume suitable additional data if necessary 6) Mobile phones & other similar electronic gadgets are strictly prohibited inside examination that Marks (10)Q. 1 Attempt ANY FIVE a) Enlist the differences of TCP/IP and UDP (Datagram) protocol (Any two) b) State the need of Serialization? c) State use of java Bean API d) Define cookies in servlet State the use of declarative tag in JSP. Also give syntax and example f) Define URL format State its format g) Enlist the object databases available (12)Attempt ANY THREE Q. 2 a) Describe the limitation of using JDBC b) Describe following with example. i) Factory method ii) Instance method Describe the Httpservlet class methods with its uses (any four) d) Design input form by using following swing components. JTextField, JLabel, JButton, JTextArea e) Describe the use of statement interface with any four methods defined in it (12) Attempt ANY THREE Q. 3 a) Describe the security considerations in JDBC b) Describe the advantages of Java Bean (Any four) c) Describe the uses of ComboBox Component in swing with JSP program. d) Describe limitations of awt. e) Write a java program to demonstrate the use of sessions in servlet (12)Attempt ANY THREE Q. 4 a) Describe the Bound properties of Java Bean b) Describe the Scroll Pane component of swing with example program c) Write a program to create a TCP server which can read/receive text message from multiple TCP client d) Describe the proxy server and its uses (any four uses) e) Describe the role of ServletRequest and Servlet Response classes in java (12)Attempt ANY TWO Q. 5 a) Write a program to generate the form given in Figure 1. b) Write a java program to create Login page using JSP. If username and password entered by the user is correct then user will redirected to the welcome page. c) Describe the architecture of CORBA in detail with neat diagram (12) Attempt ANY TWO a) Write a program which connects with Webdatabase "All-Books" and display the total Q. 6 number of books of author "Herbert Schildt" available in database b) Write a program to create a servlet which accepts two integers from the Web page and display the addition, subtraction, multiplication and division on the next web page c) Write a java program which demonstrate connecting to a web database with driver manage in JSP P.T.O.