B.Sc.(I.T.) - Semester IV
Sample Questions

Sr. No.	Subject	Unit	Question	Option 1	Option 2	Option 3	Option 4	Correct Answer
1	CJ	I	Full form of JDK is_____.	Java Development ToolKit	Java Disk ToolKit	Java Development Tools	Java Develop ToolKit	A
2	CJ	I	What is the range of short data type in Java?	-128 to 127	- 32768 to 32767	-2147483648 to 2147483647	-125 to -148	B
3	CJ	II	Which concept of Java is achieved by combining methods and	encapsulation	inheritance	polymorphisim	abstraction	A
4	CJ	II	When does method overloading is determined?	at runtime	at compile time	at coding time	at execution time	B
5	CJ	III	Which of this keyword can be used in a subclass to call the constructor of superclass?	super	this	extend	final	A
6	CJ	III	Which inheritance is not supported in java?	single inhertance	multiple inheritance	hirachical inhertance	multilevel inhertance	B
7	CJ	IV	Which of these exceptions will occur if we try to access the index of an array beyond its length?	ArithmeticException	ArrayException	ArrayIndexException	ArrayIndexOutOfBoundsException	D
8	CJ	IV	Thread class is available in_____.	java.io package	java.lang package	java.awt package	java.util package	B
9	CJ	V	Which of these methods is defined in MouseMotionAdapter cla	mouseDragged()	mousePressed()	mouseReleased()	mouseClicked()	A
10	CJ	V	Which of these functions is called to display the output of an applet?	display()	paint()	displayApplet()	PrintApplet()	B
11	IES	I	Washing machine's buttons are example of _____	Hardware	Software	Mechanical Components	System	A
12	IES	I	Air Conditioner's motor is an example of _____	Hardware	Software	Mechanical Components	System	C
13	IES	II	_____ device is an example of common user interface	Keyboard	System	Monitor	Memory	A
14	IES	II	_____component of washing machine produces most important function of rubbing the clothes with each other as well as with water.	Water inlet	Motor	Agitator	Water pump	C
15	IES	III	Intel company has _____ family microprocessor.	x81	x90	x86	x87	C
16	IES	III	What is the full form of IBP processor?	Input-byte	Itty-bitty	Inset-byte	Install-byte	B
17	IES	IV	Turbo C++ is a_____ compiler.	Native compiler	Cross-compiler	Big-compiler	Short-compiler	A

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18	IES	IV	What is the another name of Binary executable file?	Octal code	multiple code	Hex code	Decimal code	C
19	IES	V	EDLC has _____ primary objectives.	5	4	3	2	C
20	IES	V	_____is a phase of EDLC should be articulated to initiate the Development Life Cycle.	Conceptualization	Need	Analysis	Testing	B
21	COST	I	The arithmetic mean of the numbers 8, 3, 5, 12, and 10 is _____	6.7	7.6	8.4	4.8	B
22	COST	I	Range of Q1 is <table><tr><td>Grade</td><td>No of Student</td></tr><tr><td>30-40</td><td>1</td></tr><tr><td>40-50</td><td>3</td></tr><tr><td>50-60</td><td>11</td></tr><tr><td>60-70</td><td>21</td></tr><tr><td>70-80</td><td>43</td></tr><tr><td>80-90</td><td>32</td></tr><tr><td>90-100</td><td>9</td></tr></table>	50-60	60-70	70-80	80-90	C
23	COST	II	Which Formula is Correct :- A. $m_2 = m_2' - m_1'^2$ B. $m_3 = m_3' - 3m_1'm_2' - 2m_1'^2$ C. $m_4 = m_4' + 4m_1'm_3' - 6m_1'^2 m_2' + 3m_1'^4$ D. $m_1 = 1$					A
24	COST	II	the second moments of the set 2, 3, 7, 8, 10.	36.4	45.2	40.8	47.8	B
25	COST	III	If the sampling distributions of two statistics have the same mean (or expectation), then the statistic with the smaller variance is called an _____ of the mean.	Time Estimator	Distance Estimator	efficient estimator	Data Estimator	C
26	COST	III	Two urns, A and B, contain equal numbers of marbles, but the proportion of red and white marbles in each of the urns is unknown. A sample of 50 marbles from each urn is selected from each urn with replacement. There are 32 red in the 50 from urn A and 23 red in the 50 from urn B, that A has a greater proportion than B by giving the computed test statistic 1.81. p-value = _____	0.015	0.035	0.022	0.042	B
27	COST	IV	The 99% confidence coefficients (two-tailed) for the normal distribution are given by ± 2:58. What are the corresponding coefficients for the t distribution if v = 4	± 2.13	± 2.78	± 3.75	± 4.60	D

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28	COST	IV	Value of $\chi^2_{0.95}$ =? For degree of freedom 1.	1.58	3.84	6.97	11.67	B
29	COST	V	Find the equation of a line whose slope is -4 and whose Y intercept is 16.	Y = 16 - 4X	Y = 16 + 4X	Y = -16 + 4X	Y = -16 - 4X	A
30	COST	V	The method of curve fitting has the disadvantage that different observers will obtain _____ curves and equations.	Different	Same	Similar	mulitple	A
31	SE	I	The classes of software are	Generic Software	Customized Software	Both option1 and option2	None of these	C
32	SE	I	A software consists of	programs + hardware manuals	set of instructions	set of hardwares	set of libraries, utilities,drivers	B
33	SE	II	Under system engineering process which is an iterative process with many parallel loops	model the system	Integrate	re-evaluate	None of these	C
34	SE	II	State Diagram shows the system's response to _____ events.	External	Internal	midterm	Both B and C	A
35	SE	III	Interface Design issues include	Response Time	Help Facilities	Error Handling	All of these	D
36	SE	III	Product risk is also known as	Technical risk	Business risk	Project risk	sample risk	A
37	SE	IV	Planning of the inspection is done by the	Customer	Client	Moderator	None of these	C
38	SE	IV	CTIS stands for	Component Testing In Small	Component Testing In Sample	Component Tackling In Small	None of these	A
39	SE	V	Environment related to software development consists of	Operating System	peripheral devices	Both option1 and option2	None of these	C
40	SE	V	CMMI stands for	Capacity Managability Model Integration	Capability Maturity Model Integration	Capability Maturity Management Integration	None of these	B
41	CGA	I	An image that is generated by a computer is called as _____.	image	photo	graph	graphics	D
42	CGA	I	_____ is the science of creating, storing, manipulating and displaying images using computers.	database	Computer Graphics	table	matrix	B
43	CGA	II	_____ means to change the position of an object.	Scaling	Rotation	Shearing	Translation	D

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44	CGA	II	If the value of sx=1 and sy=1 in scaling then _____.	No change in the size of an object	Distort the picture	Produce an enlargement	Reduce the size of object	A
45	CGA	III	_____ is a radiant energy.	Frequency	Light	Wavelength	Color	B
46	CGA	III	RGB stands for _____.	Red-Green-Blue	Red-Grey-Blue	Red-Green-Black	Red-Grey-Blue	A
47	CGA	IV	Z-Buffer algorithm is also called as _____.	Height Buffer	Depth Buffer	Weight Buffer	Y-Buffer	B
48	CGA	IV	In 2D, an implicit curves can be represented by an equation _____.	$f(x,y,z)=0$	$y=f(x)$	$y=f(x2)$	$f(x,y)=0$	D
49	CGA	V	The _____ in an outline of the action.	Story board Layout	Object Definition	Key-Frame Specification	Tweening	A
50	CGA	V	_____ Filters are also called as average filters or mean filters.	Smoothing	Compression	Histogram Equalization	Median Filtering	A