

B.Sc.(I.T.) - Semester II

Sample Questions

Sr. No.	Subject	Unit	Question	Option 1	Option 2	Option 3	Option 4	Correct Answer
1	OOPs	I	New data and functions can be easily added in object oriented programming.	TRUE	FALSE	Partially True	Partially False	A
2	OOPs	I	Procedure oriented programming employs bottom up approach in program design.	TRUE	FALSE	Partially True	Partially False	B
3	OOPs	II	A class is terminated by a _____.	colon	semicolon	comma	full stop	B
4	OOPs	II	All static data members are initialized to _____	0	1	2	3	A
5	OOPs	III	_____ operator cannot be overloaded.	unary	scope resolution	increment	binary	B
6	OOPs	III	Friend function cannot be used to overload _____ operator.	arithmetic	unary	assignment	binary	C
7	OOPs	IV	The mechanism of deriving a class from another derived class is known as _____ inheritance.	single	multiple	hybrid	multilevel	D
8	OOPs	IV	In inheritance, the old class is known as _____ class.	derived	sub	child	base	D
9	OOPs	V	fstream class is used to provide _____ operations.	input	output	Both A & B	none of the above	C
10	OOPs	V	_____ function gives current position of get pointer.	seekg	seekp	tellg	tellp	C
11	MA	I	ALU stands for _____	Arithmetic and Logic Unit	Accumulator and Logic Unit	Application and Logic Unit	Accounts and Logic Unit	1
12	MA	I	In 8085 microprocessor, address bus is a group of 16 lines generally identified as _____.	A0-A15	A16-A32	A0-A16	AD0-AD7	1
13	MA	II	Which of the following is incorrect instruction?	ADD M	RLC 8-bit data	MVI 8-bit data	MOV R,M	2
14	MA	II	Which of the following is not logical instruction?	ANA R	CMA	INR R	ORA R	3
15	MA	III	Which of the following instruction is used to rotate the contents of accumulator left through carry?	RLC	RRC	RAR	RAL	4
16	MA	III	In "CMP R" instruction, if accumulator contents are greater than register then Carry flag and Zero flag are set to ___ and _____.	0,0	0,1	1,0	1,1	1
17	MA	IV	SIM stands for _____.	Set Input Mask	Set Inconret Mask	Set Interrupt Mask	Set Incomplete Mask	3
18	MA	IV	Which of the following instruction copies the contents of the top two memory locations of the stack into the specified register pair.	POP 8-bit data	RET	CALL 16-bit data	POP Rp	4
19	MA	V	In pentium processor, _____ registers are used to exclusively to maintain the stack .	Index Register	Pointer Register	Segment Register	Data Register	2

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20	MA	V	In pentium processor which signal is used to resolve deadlock between two bus masters?	BRDY	BOFF	BREQ	PCHK	2
21	WP	I	First e-mail was sent by Ray Tomlinson in _____.	1969	1970	1971	1972	3
22	WP	I	In CSS, ids are defined with _____ character	#	:	_	.	4
23	WP	II	The coordinates of _____ corner of an image are 0,0.	bottom-left	top-left	bottom-right	top-right	2
24	WP	II	_____ attribute that indicates where to display the response that is received after submitting the form.	method	action	target	name	3
25	WP	III	A global variable in JavaScript is declared _____.	outside all functions	in function global()	in the first function	in the last function	1
26	WP	III	onError is _____ event in JavaScript.	mouse	form	keyboard	window	4
27	WP	IV	All php files must be placed inside _____ folder.	php	localhost	wamp	www	4
28	WP	IV	_____ function can be used to print all elements of an array.	echo()	print()	print_r()	print_array()	3
29	WP	V	* enumerator matches _____.	one or more occurrences	zero or more occurrences	zero or one occurrence	two or more occurrences	2
30	WP	V	It is mandatory to specify the name of the database while connecting to the server / databae in _____.	MySQL	MySQLi	Both MySQL and MySQLi	Neither MySQL nor MySQLi	2
31	NSM	I	In general the ratio of truncation error to that of round off error is _____	2:1	1:1	1:2	1:3	1
32	NSM	I	_____ error is due to the fact that computers can represent only quantities with a finite number of digits.	System	Numeric	Round-Off	Truncation	3
33	NSM	II	_____ method is a modification of the Gauss elimination method.	Numerical	Gauss-Jordan	Linear	Inverse	2
34	NSM	II	The _____ method is the most commonly used iterative method.	Gauss-Seidel	Cholesky	Diagonal	Gauss-Jordan	1
35	NSM	III	If $dy/dx=x^2$, $y(0.1)=0$ then what is value of x_0 for finding out y_0 using Eulers method.	0	1	2	3	1
36	NSM	III	If $dy/dx=x$ then what is value of y'' (second order derivatives).	1	2	3	4	1
37	NSM	IV	The normal equations for a straight line $y = ax + b$ are:	$\Sigma y = a\Sigma x + nb$ and $\Sigma xy = a\Sigma x^2 + b\Sigma x$	$\Sigma xy = a\Sigma x + nb$ and $\Sigma y = a\Sigma x^2 + b\Sigma x$	$\Sigma y = a\Sigma x + nb$ and $\Sigma xy = a\Sigma x^2 + b\Sigma xy$	$\Sigma y = a\Sigma x + nb$ and $\Sigma x^2y = a\Sigma x^2 + b\Sigma x$	1
38	NSM	IV	In regression analysis, the variable that is being predicted is	the independent variable	the dependent variable	usually denoted by x	usually denoted by r	2

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39	NSM	V	What is the standard deviation of a binomial distribution where $n = 16$ and $p = 0.20$?	1.6	2.56	4	6.55	1
40	NSM	V	What is the expected value of the binomial distribution where $n = 16$ and $p = 0.85$?	6	7.4	12.4	13.6	4
41	GC	I	_____ is a software distribution model where a third-party vendor offers its software to customer for use over internet.	Google Assistant	VAN	SaaS	WEEE	C
42	GC	I	_____ is achieved using specialized software which creates partitions of a server into smaller virtual servers to maximize server resources.	Virtualization	Socialization	communication	Transmission	A
43	GC	II	How many types of economizers ?	1	2	3	4	B
44	GC	II	_____ is a measure of amount of energy consumed per square feet of floor space.	storage utilization	storage density	SWaP	Data Center Density	D
45	GC	III	Climate Savers Computing Initiative was created by which technology leaders?	Microsoft	Google	Facebook	Apple	B
46	GC	III	Total Occupant BTU is defined as	number of occupants * 200	number of occupants * 300	number of occupants * 400	number of occupants * 500	C
47	GC	IV	In an organization where the media is played from a CD,DVD or hard drive ,the application buffers are set large enough to store as much of the media in memory as possible	Doing this increases power	Doing this reduces power	Doing this crashes the computers	Doing this crashes the server	B
48	GC	IV	This program or an operating system feature allows user to connect to a computer in another loction.	Remote Desktop	Intranet	EDI	E-Commerece	A
49	GC	V	Power Usage Effectiveness(PUE) is defined as	$PUE = \frac{\text{Total facility power}}{\text{IT equipment power}}$	$PUE = \frac{\text{IT equipment power}}{\text{Total facility power}}$	$PUE = \frac{\text{no of hardware}}{\text{no of softwares}}$	$PUE = \frac{\text{total Power}}{\text{unit power}}$	A
50	GC	V	Datacenter Efficiency (DCE) is defined as	$DCE = \frac{\text{total facility power}}{\text{IT equipment power}}$	$DCE = \frac{\text{IT equipment power}}{\text{total facility power}}$	$DCE = \frac{\text{no of hardware}}{\text{no of softwares}}$	$DCE = \frac{\text{total Power}}{\text{unit power}}$	B