Subject: Imperative Programming

Class: F.Y.B.Sc.IT

Semester: I

Subject: Sample Questions

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1.	UNIX Kernel is based
	A. Linux
	B. C C. C++
	D. C#
2.	To use the input functions in the program header file has to be included.
	A. stdio.h
	B. conio.h
	C. string.h D. stdlib.h
3.	is not the type of statement of C programming.
٥.	A. Expression
	B. Compound
	C. Control
4	D. Logical
4.	<< -bitwise operator shifts the number of bits of the given number in side.
	A. Right
	B. Left
	C. 2 bits right
_	D. 2 bits left
5.	The C program should have at least function. A. 1
	B. 2
	C. 3
	D. 0
6.	What will be the output of following program:
	main()
	{
	int i = 3;
	1
	$ \lim_{n \to \infty} \frac{1}{n} = 5, j = 6; $
	printf("%d %d", i, j);
	}
	printf("%d %d", i, j);
	}

```
A. 3525
   B. 3656
   C. 5363
   D. 3355
7. What will be the output of the following program:
           main()
           {
            printf ("\\n hi");
            printf ("\\t hello");
            printf ("\\" all");
           }
   A. hi hello" all
   B. hihello"all
   C. hi hello"all
   D. hi hello" all
8. The
                _____ is basic data type.
   A. Pointer
   B. Structure
   C. Array
   D. float
9. Character data type has _____ range.
   A. -128 to +127
   B. -127 to +128
   C. -129 to +128
   D. -127 t0 +129
10. _____ is not the C Keyword.
   A. struct
   B. int
   C. long
   D. medium
11. To print decimal, hexadecimal or octal integer value which conversion character
   conversion is used?
   A. h
   B. d
   C. i
   D. x
12. %= is example for which operator?
   A. Comparison
   B. Logical
   C. Assignment
   D. Relational
13. Which functions returns a value?
   A. main()
   B. void main()
```

		<pre>int main() int()</pre>
14.	A. B. C.	nction that transmits only single character from the standard output device. printf() puts() putchar() putc()
15.	A t	ernary operator, operates on operands.
		one
		tro
		multiple
	D.	three
16.	N=	10; N++; Select the Correct Output.
		10
		11
	C.	
	υ .	-11
17.	Sur	m=+20, can also be written as.
	A.	sum=sum+sum
		Sum=20+sum
		sum=sum+20
	D.	Invalid Syntax]
18.	The	e logical operator OR is defined as-
	A.	True when all the condition true
	B.	True when it converts true to false
		True when at least one condition is true
	D.	Converts false to true &true to false
19.	The	e operator << works as.
	A.	Or
	B.	Not
		Right shift
	D.	Left shift
20.	Wh	nich of the following is not a relational operator in C?
	A.	-
	B.	==
	C.	
		!=
21.		hat are types of Functions in C Language?
		Library Functions User Defined Functions

- C. Both Library and User Defined
- D. Customized
- 22. What is the output of C Program.?

```
int main()
{     int a=9, b=5, c=8;
     if(!(a==9))
     {
        printf("Bear\n");
     }
     else
     {
          printf("Elephant\n");
     }
     printf("Fox");
     return 0; }
```

- A. Bear Fox
- B. Elephant Fox
- C. Fox
- D. Compiler error
- 23. What will be the data type returned for the following C function?

```
#include
int func()
{
return (double)(char)5.0;
}
```

- A. int
- B. double
- C. char
- D. string
- 24. What is the output of this C code?

```
int main()
{
    int a = 2;
    if (a >> 1)
        printf("%d\n", a);
}
```

- A. 0
- B. 1
- C. 2
- D. 4
- 25. The default parameter passing mechanism is?
 - A. call by value
 - B. call by reference
 - C. call by value result
 - D. call by data
- 26. The _____ is used to break out of the case statements.
 - A. Continue

- B. Break
- C. Default
- D. Case
- 27. A function is a subroutine that may include one or more _____ designed to perform a specific task.
 - A. Function
 - B. Statement
 - C. Libraries
 - D. Data types
- 28. What is the output of C Program.?

```
int main()
{
    int a=5, b=8;

    if( a==5 && (b=9) )
    {
        printf("Gorilla Glass=");
     }
     printf("%d %d", a, b);

    return 0; }
```

- A. 58
- B. 59
- C. Gorilla Glass=58
- D. Gorilla Glass=59
- 29. What is the output of C Program.?

```
int main()
{     int a=9, b=5, c=8;
     if(!(a==9))
     {
        printf("Bear\n");
     }
     else
     {
        printf("Elephant\n");
     }
     printf("Fox");
     return 0:}
```

- A. Bear Fox
- B. Elephant Fox
- C. Fox
- D. Compiler error
- 30. What is the output of the following code:

```
void myshow(int *);
void main()
    I {nt a=10;
    printf("%d ", a);
    myshow(&a);
    printf("%d", a);}
void myshow(int *k)
{
    *k=20;
```

```
A. 10 20
         B. 20 20
        C. 10 10
         D. 10 20
    31. An array Index starts with?
          A. -1
          B. 0
          C. 1
          D. 2
    32. What is the output of C Program.?
int main()
{
int a[];
a[4] = \{1,2,3,4\};
printf("%d", a[0]);
}
   A. 1
   B. 2
   C. 4
   D. Compile error
    33. What is the output of C Program?
int main()
{
char grade[] = \{'A', 'B', 'C'\};
printf("GRADE=%c, ", *grade);
printf("GRADE=%d", grade);
}
```

A) GRADE=some address of array, GRADE=A
B) GRADE=A, GRADE=some address of array
C) GRADE=A, GRADE=A
D) Compiler error
34. An entire array is always passed by to a called function.
A) Call by value
B) Call by reference
C) Address relocation
D) Address restructure
35. How do you initialize an array in C?
A. int arr[3] = (1,2,3); B. int arr(3) = {1,2,3}; C. int arr[3] = {1,2,3}; D. int arr(3) = (1,2,3);
36. Assuming int is of 4bytes, what is the size of int arr[15];?
A. 15 B. 19 C. 11 D. 60
37. Elements in an array are accessed
A. randomlyB. sequentiallyC. exponentiallyD. logarithmically
38. When does the ArrayIndexOutOfBoundsException occur?
A. Compile-timeB. Run-timeC. Not an errorD. Not an exception at all
39. What is the output of the following Java code?
public class array

```
{
      public static void main(String args[])
            int []arr = \{1,2,3,4,5\};
            System.out.println(arr[5]);
      }
}
A. 4
B. 5
C. ArrayIndexOutOfBoundsException
D. InavlidInputException
40. What will be the output of the program?
int main()
{
enum days {MON=-1, TUE, WED=6, THU, FRI, SAT};
printf("%d, %d, %d, %d, %d, %d\n", MON, TUE, WED, THU, FRI, SAT);
return 0;
}
A. -1, 0, 1, 2, 3, 4
B. -1, 2, 6, 3, 4, 5
C. -1, 0, 6, 2, 3, 4
D. -1, 0, 6, 7, 8, 9
41. What will be the output of the program?
int main()
enum status {pass, fail, absent};
enum status stud1, stud2, stud3;
stud1 = pass;
stud2 = absent;
```

```
stud3 = fail;
printf("%d %d %d\n", stud1, stud2, stud3);
return 0;
}
A. 0, 1, 2
B. 1, 2, 3
C. 0, 2, 1
D. 1, 3, 2
42. What will be the output of the program in Turbo C (under DOS)?
int main()
struct emp
char *n;
int age;
};
struct emp e1 = {"Dravid", 23};
struct emp e2 = e1;
strupr(e2.n);
printf("%s\n", e1.n);
return 0;
}
A. Error: Invalid structure assignment
B. DRAVID
C. Dravid
D. No output
43. What will be the output of the program in 16-bit platform (under DOS)?
int main()
{
```

```
struct node
int data;
struct node *link;
};
struct node *p, *q;
p = (struct node *) malloc(sizeof(struct node));
q = (struct node *) malloc(sizeof(struct node));
printf("%d, %d\n", sizeof(p), sizeof(q));
return 0;
}
A. 2, 2
B. 8, 8
C. 5, 5
D. 4, 4
44. What will be the output of the program?
int main()
struct byte
{
int one:1;
};
struct byte var = \{1\};
printf("%d\n", var.one);
return 0;
}
A. 1
B. -1
C. 0
```

D. Error

 $p[] = \{0\};$

- 45. Which of the following statements correct about the below code? maruti.engine.bolts=25;
- A. Structure bolts is nested within structure engine.
- B. Structure engine is nested within structure maruti
- C. Structure maruti is nested within structure engine
- D. Structure maruti is nested within structure bolts.
- 46. Number of bytes in memory taken by the below structure is?

```
Struct test
int k;
char c;
};
A. Multiple of integer size
B. integer size+character size
C. Depends on the platform
D. Multiple of word size
47. Size of a union is determined by size of the
A. First member in the union
B. Last member in the union
C. Biggest member in the union
D. Sum of the sizes of all members
48. What is the output of this C code?
(Assuming size of int be 4)
struct temp
int a;
int b;
int c;
```

```
main()
{ printf("%d", sizeof(p));
}
A. 4
B. 12
C. 16
D. Can"t be estimated due to ambigous initialization of array
49. The declaration of structure is also called as?
A. structure creator
B. structure signifier
C. structure specifier
D. structure define
50.. What is the output of C Program.? int main() { int a[] = \{1,2,3,4\}; int b[4] =
{5,6,7,8}; printf("%d,%d", a[0], b[0]); }
A) 1,5
B) 2,6
C) 0 0
```

D) Compiler error

Sample Question Bank

Asst. Prof. Raveena Shetty Tilak

Regular Examination

BSc	EIT SEM-I
Sub	ject: OPERATING SYSTEM
Q1.A	is a program in execution.
a.	Process
b.	Thread
c.	Application
d.	Software
Q2.U	ser Threads
a.	are supported above the kernel and are managed without the kernel support
b.	are supported below the kernel and are managed without the kernel support
c.	are supported above the kernel and are managed with the kernel support
d.	are supported below the kernel and are managed with the kernel support
Q.3	When a thread needs to wait for an event it will
ć	a. Block
1	o. Execute
(c. Terminate
(d. Update

Q.4 In a pure Kernel Level Thread facility all of work of thread management is done by the

a. Application

b.	Program	
c.	Kernel	
d.	Threads	
Q.5 In many to one multithreading model many user level threads are attached to		
a.	one register	
b.	operating system	
c.	one kernel thread	
d.	other threads	
Q.6 The kernel dispatcher keeps track of all ready		
a.	Systems	
b.	Registers	
c.	Threads	
d.	Buffers	
Q.7 E	vent for which a thread block occurs the thread is moved to the ready	
a.	Buffer	
b.	Memory	
c.	Registers	
d.	Queue	
Q.8	Message passing system allows processes to	
:	a. communicate with one another without resorting to shared data	

b.	communicate with one another by resorting to shared data
c.	share data
d.	name the recipient or sender of the message
Q.9 W	Which of the following two operations are provided by the IPC facility?
a.	write & delete message
b.	delete & receive message
c.	send & delete message
d.	receive & send message
Q.10	What is SJF algorithm?
a.	first executes the job that came in last in the queue
b.	first executes the job that came in first in the queue
c.	first executes the job that needs minimal processor
d.	first executes the job that has maximum processor needs
Q. 1	11 The process is the set of logical addresses that a process references in its code.
	a. Zone
	b. Area
	c. Mapping
	d. Address Space
Q. 2	12 Main Memory refers to a memory that is the internal memory to the computer

a. virtual
b. physical
c. short
d. flash
Q.13occurs in a dynamic memory allocation system when most of the free blocks are too sn
a. Fragmentation
b. Detection
c. Looping
d. Swapping
Q.14 A is the data structure used by a virtual memory system
a. Page Table
b. Track
c. Sector
d. Partition
Q. 15 A Page Table is to store the mapping betweenaddress and physical addresses.
a. main
b. external
c. internal
d. virtual
Q.16 Segmentation allows breaking of the virtual address space of a single process into

a. pages	
b. segme	ents
c. partit	ion
d. block	
Q.17	is a unique tag, usually a number identifies the file within the file system.
a. File io	dentifier
b. File n	ame
c. File ty	ype
d. File s	pace
Q.18 What is the	he mounting of file system?
a. creating	a file system
b. deleting	a file system
c. attachin	g portion of the file system into a directory structure
d. removin	ng the portion of the file system into a directory structure
Q.19 Mapping	of file is managed by
a. file me	tadata
b. virtual	memory
c. page ta	ble
d. file sys	tem
Q.20 Mapping	of network file system protocol to local file system is done by

a.	network file system
b.	local file system
c.	volume manager
d.	remote mirror
	1 are used widely in computer architecture and vary in their signaling hods, speed, throughput, and connection methods
a.	bus
b.	card
c.	interface
d.	connector
Q 2	2. Connects physical device to system bus like Minicomputers, PCs,etc
ä	a. wired
	b. driver
	c. device controller
	d. device connection
Q 2	3. A module controls exchange of data between I/O module and main memory
	a.DMA
	b.RMA
	c.DDA
	d.RAM

Q 24. In polling cycle is used wait for I/O from device
a. WAIT-BUSY
b. BUSY-WAIT
c. STOP-WAIT
d. WAIT-STOP
Q 25. The processor issues an I/O command and continues to execute in which of the following a. programmed i/o polling
b. interrupt-driven i/o
c. character-driven i/o
d. direct memory access
Q 26. The number of processes and the number and kind of resources possessed and requested are unimportant, This result holds for any kind of resource, including both hardware and softwar This kind of deadlock is called
a. memory deadlock
b. hardware deadlock
c. resource deadlock
d. exclusive deadlock
Q 27. If no cycles exist, the system is
a. deadlocked
b. not deadlocked
c. waiting

d. locked	
Q 28. Deadlocks can occur when processes have bee	n granted exclusive access to.
a. resources b. data	
c. memory d. component	
Q 29 resource is one that can be taken away for a. preemtable	rom the process owning it with no ill effects
b. non preemtable	
c. preserve	
d. reserve	
Q 30. Potential deadlocks that involve preemptable r	esources can usually be resolved by
a. allocating resources	
b. deallocating resources	
c. reallocating resources	
d. locking resources	
Q 31. Virtualization manager, program that allows r hardware host also refer as a. hypermachine	nultiple operating systems to share a single
b. hypervisor	
c. hyperenvironment	
d. hyperos	
Q 32. Modern operating systems nearly all support v a. mapping of memory	irtual memory, which is basically refer as
b. mapping of pages	

c.	mapping of disk
d.	mapping of cache
_	is set in motion by having the operating system set a control register in the CPU points to the top-level page table
	paging
b.	caching
c.	mapping
d.	virtualizing
machin	is software assisted virtualization technique that uses specialized APIs to link virtual nes with the hypervisor to optimize their performance virtualization
υ.	paravirtualization
c.	swapvirtualization
d.	distributing system
operati install	The customers get a complete package that actually works, completely independent of which ing system they are running and which other software, packages, and libraries they have ed. These "shrink-wrapped" virtual machines are often called virtual disk
b.	virtual machine
c.	virtual appliances
d.	virtual device

Q 36.The Microkernel Type 1 Hypervisor, hosts its drivers on the a. base partition
b. virtual partition
c. parent partition
d. child partition
Q 37. All modern x86 CPUs include a and a to optimize virtual memory performance a. MUM,TBL
b. MMU,TLB
c. MEM,TLB
d. MMU,TBL
Q.38 handles virtual-to-physical translations as defined by the OS a. memory management unit
b. translation lookaside buffer
c. page management
d. paging
Q.39 Multicore virtualization method to allow hardware designers to get an abstraction of the details of the processor cores a. high-level
b. low-level
c. neutral
d. no access
Q.40use a physical hierarchy of two or more cache levels that statically determine the cache allocand mapping

a.	chip multiprocessor
b.	chip singleprocessor
c.	chip physical memory
d.	chip logical memory
	Applications interact with the operating system through calls to libraries provided by it, which togethe ose the Android
a.	Library
b.	Collection
c.	Framework
d.	Package
Q 42.7	The manager rides herd on power usage throughout the system.
a.	Power
b.	Electric
c.	Battery
d.	Cell
Q 43	OS specifically designed for smartphones and tablet computers
a.	Android
b.	Raspberry pi
c.	Ubuntu
d.	Fedora
Q 44.I	DVM stands for
a.	Java VM

b.	Dalvik VM
c.	Jam VM
d.	Hotspot
Q 45.7	There are layers in Binder IPC Architecture in android
a.	2
b.	4
c.	6
d.	3
Q 46.A	Android Interface Definition Language is a tool
a.	Interpreter
b.	GUI Interface
c.	Interface compiler
d.	Programing language
Q 47.U	JID zero represent user in android
a.	root
b.	group
c.	guest
d.	anonymous
Q 48.I	n Linux OS the command line interface is called as

a.	cmd
b.	shell
c.	prompt
d.	terminal
Q 49.7 other v	The heart of Linux implementation of threads is a new system call which is not present in any version of UNIX
a.	create()
b.	fork()
c.	clone ()
d.	exec()
Q 50	command search a file for some pattern
a.	cat
b.	grep
c.	ср
d.	cut

FYIT SEM 1 – SAMPLE QUESTIONS - COMMUNICATION SKILLS – $50 \ \text{MQS}$

1.	Communication is a non-stop
	a. paper
	b. process
	c. programme
	d. plan
2.	Communication is a part of skills.
	a. soft
	b. hard
	c. rough
	d. short
3.	The is the person who transmits the message
	a. receiver
	b. driver
	c. sender
	d. cleaner
4.	is the person who notices and decodes and attaches some meaning t
••	a message
	a. receiver
	b. driver
	c. sender
	d. cleaner
5.	Message is any signal that triggers the response of a
٥.	a. receiver
	b. driver
	c. sender
	d. cleaner
6.	The response to a sender's message is called
٠.	a. food bank
	b. feedback
	c. feeding
	d. fooding
7.	context refers to the relationship between the sender and the receiver
. •	a. social
	b. physical
	c. cultural
	d. chronological
8.	context refers to the similarity of backgrounds between the sender and
	the receiver.
	a. chronological
	b. social
	c. physical
	d. cultural
9.	refers to all these factors that disrupt the communication.
•	a. nonsense
	b. noise
	c. nowhere
	d. nobody
10	Environmental barriers are the same as noise.

	physiological
	psychological
	physical
	sociological
11.	ar dress code is an example of communication.
	verbal
	nonverbal
	written
	spoken
12.	ommunication strengthens & relationship is an
	ganization.
	employer-father
	employer-employer
	mother-employer
	mother-child
13.	communication includes tone of voice body language, facial
	pressions etc.
	non verbal
	verbal
	letter
	noise
14.	hen there is similarity of background between the sender and the receives such as
	e, language nationality, religion, gender then this is called context
	social
	cultural
	physical
	dynamic
15.	etter, e-mail telephone are examples of
	message
	feedback
	channel
	encoding
16.	shorter report is considered to be as
	1-5 pages
	3-5 pages
	4-5 pages
	2 pages
17.	list of illustration, included, figures and tables, placed on Abstract
	Vision
	Title Page
	Table Content
	Bottom Line
18.	rmat written in formal and oral communication, termed as
	Manuscript Speech
	Commencement Speech
	Memorized Speech
	Verbal Language Processing
19.	hich of these is usually written in a form of a memorandum?
	Informal reports
	Formal reports

	d.	Business reports
20.	Wl	nich of these is not a formal report?
	a.	Informational
	b.	Informal
	c.	Interpretative
		Routine
21		o which of these types are formal reports not classified?
41.		Informational
		Interpretative
		Oral
22		Routine
22.		nich of these reports provide information without any evaluation?
		Informational
		Interpretative
		Routine
		Progress
23.		erpretative reports are also known as
		recommendation reports
	b.	routine reports
	c.	progress reports
	d.	informal reports
24.	Wl	nich of these is not mentioned in a resume?
	a.	Culture
	b.	Age
	c.	Nationality
	d.	Experience
25.		e of a business letter is called layout.
		body
		content
	c.	pattern
		conclusion
26.	Ef	fective professional correspondence uses an appropriate style, clear and concise
		guage, and
		the passive voice
		open punctuation
		the active voice
		mixed punctuation
27		www.many references are usually given in a resume?
<i>∠1</i> .	a.	Two
		Three
		Four
20		Five
28.		sume is a word.
	a.	French
		German
		Indian
•		American
29.		rriculum vitae is a word.
	a.	French

c. Professional reports

	German
c.	Indian
d.	Latin
	gives input into right strategic decision making
a.	Public relation officer
b.	Corporate communicator
c.	Sales manager
d.	Marketing manager
31. In	current times, there is greater demand for
a.	Policies of variation
b.	Policies of consistency
c.	Policies of heterogeneity
d.	Policies of discrepancy
32	is a management framework to guide and coordinate marketing
co	mmunication and public relations
a.	Corporate strategy
b.	Corporate communication
c.	Corporate marketing
d.	Corporate relations
33. De	espite consolidation of various communication disciplines, some units like
are	e seen as a separate functional area
a.	Media relations
b.	Corporate responsibility
c.	Finance
d.	Crisis management
34. Cr	isis management is the work of professionals
a.	Public Relations
h	
υ.	IT
	IT FMCG
c. d.	FMCG Marketing
c. d. 35. Pu	FMCG Marketing blic Relation professionals often need to
c. d. 35. Pu	FMCG Marketing
c. d. 35. Pu a.	FMCG Marketing blic Relation professionals often need to
c. d. 35. Pu a. b. c.	FMCG Marketing blic Relation professionals often need to Lie Multitask Sell
c. d. 35. Pu a. b. c. d.	FMCG Marketing blic Relation professionals often need to Lie Multitask Sell Hire
c. d. 35. Pu a. b. c. d. 36	FMCG Marketing blic Relation professionals often need to Lie Multitask Sell Hire is different from direct advertising and is used by many brands that sell
c. d. 35. Pu a. b. c. d. 36ala	FMCG Marketing blic Relation professionals often need to Lie Multitask Sell Hire is different from direct advertising and is used by many brands that sell cohol
c. d. 35. Pu a. b. c. d. 36alc a.	FMCG Marketing blic Relation professionals often need to Lie Multitask Sell Hire is different from direct advertising and is used by many brands that sell cohol Step advertising
c. d. 35. Pu a. b. c. d. 36alc a. b.	FMCG Marketing ablic Relation professionals often need to Lie Multitask Sell Hire is different from direct advertising and is used by many brands that sell cohol Step advertising Surrogate advertising
c. d. 35. Pu a. b. c. d. 36alc a. b. c.	FMCG Marketing blic Relation professionals often need to Lie Multitask Sell Hire is different from direct advertising and is used by many brands that sell cohol Step advertising Surrogate advertising Adopted advertising
c. d. 35. Pu a. b. c. d. 36alc c. d. c. d.	FMCG Marketing blic Relation professionals often need to Lie Multitask Sell Hire is different from direct advertising and is used by many brands that sell cohol Step advertising Surrogate advertising Adopted advertising Foster advertising
c. d. 35. Pu a. b. c. d. 36 alc a. b. c. d. 37	FMCG Marketing ablic Relation professionals often need to Lie Multitask Sell Hire is different from direct advertising and is used by many brands that sell cohol Step advertising Surrogate advertising Adopted advertising Foster advertising is an exclusive right granted by a sovereign state for an invention.
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c. d. 35. Pu a. b. c. d. 36 alc c. d. 37 a. b. c. d.	FMCG Marketing blic Relation professionals often need to Lie Multitask Sell Hire is different from direct advertising and is used by many brands that sell cohol Step advertising Surrogate advertising Adopted advertising Foster advertising is an exclusive right granted by a sovereign state for an invention. Patent Copyright
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c. d. d. 35. Pu a. b. c. d. 36 al. c. d. 37 a. b. c. d. 38 a. b. c. d.	FMCG Marketing blic Relation professionals often need to Lie Multitask Sell Hire is different from direct advertising and is used by many brands that sell cohol Step advertising Surrogate advertising Adopted advertising Foster advertising is an exclusive right granted by a sovereign state for an invention. Patent Copyright Surrogate Creative right is an intellectual property right created by a work of art

d. Creative right
39. Which on of the following is often the first step of plannig the presentation
a. Brainstorming ideas and writing them down
b. Make sense of the audience
c. Prepare PPT
d. Dress up well
40. The basic concept behindis to cpture ideas as quickly as possible.
a. Writing down ideas
b. Brainstorming
c. Judgement of topic
d. Capture the ideas
41. In planning of presentation importance of brainstorming is(Choose the correct
option)
a. Think critically
b. delivering the presentation
c. Brainwash of negativity
d. Solving problems and coming up with new ideas
42. To whom should a presentation be aimed?
a. The highest authority in the room, regardless of where they are
b. The entire audience
c. The people in the closest rows
d. Your best friend in the room
43. Why should you keep text to a minimum on slides?
a. So the focus is on you as the speaker
b. To help make your presentation longer
c. So the pictures are easier to see
d. To make sure the audience can read everything you have to tell them
44. Your presentation should consist of title slide,, body, and
a. objects and summary
b. opinions and paragraphs
c. objectives and summary
d. options and pages
45. Which one of the following is not the brainstorming rule
a. Defer judgment
b. one conversation at a time
c. Be visual
d. Concentrate on Bod language
46. Brainstorming can be a greatwhere you have shared discussions and also for individual ideation
a. Team buildingb. Conflict resolution
c. presentation d. Ethics
47. Which one of the following term is irrelevant to brainstorming a. problem solving
b. Project Management
· · · · · · · · · · · · · · · · · · ·
c. Improves d. Audio visual equipment's
48. Which of the following statements about brainstorming is NOT correct?
a. Brainstorming is an open game without rules or guidelines.
a. Dramstorning is an open game without rules of guidennes.

- b. Brainstorming is often used for creative problem solving.
- c. All participants in brainstorming should be given a chance to contribute to the process.
- d. No criticism is allowed in brainstorming.
- 49. In the beginning of the brainstorming session preparing a chart will help to
 - a. Give summary of the presentation
 - b. Heading and sub sections of the content
 - c. Chart is useless
 - d. shows references
- 50. Which is the NOT the role of facilitator in brainstorming.
 - a. Keep the session on track
 - b. Record all the information
 - c. Document the information
 - d. Observe the presentation

Sample Question Bank Prof. Suman Upadhyay Regular Examination BScIT SEM-I

DISCRETE MATHEMATICS

1)	The set O of odd positive integers less than 10 can be expressed by
a)	$\{1, 2, 3\}$
	$\{1, 3, 5, 7, 9\}$
	$\{1, 2, 5, 9\}$
d)	{1, 5, 7, 9, 11}
ŕ	
2)	Power set of empty set has exactly subset.
	One
b)	Zero
c)	Two
d)	Three
3)	Express $\{x: x=n/(n+1), n \text{ is a natural number less than } 7\}$ in roster form.
	a) $\{\frac{1}{2}, \frac{2}{3}, \frac{4}{5}, \frac{6}{7}\}$
	b) $\{\frac{1}{2}, \frac{2}{3}, \frac{3}{4}, \frac{4}{5}, \frac{5}{6}, \frac{6}{7}, \frac{7}{8}\}$
	c) $\{\frac{1}{2}, \frac{2}{3}, \frac{3}{4}, \frac{4}{5}, \frac{5}{6}, \frac{6}{7}\}$
	d) Infinite set
4)	Number of power set of {a, b}, where a and b are distinct elements.
	a) 3
	b) 4
	c) 2
	d) 5
5)	The set difference of the set A with null set is
	a) A
	b) null
	c) U
	d) B
6)	If $n(\Lambda)=20$ and $n(P)=20$ and $n(\Lambda \cup P)=40$ then $n(\Lambda \cap P)=20$
U)	If $n(A)=20$ and $n(B)=30$ and $n(A \cup B) = 40$ then $n(A \cap B)$ is? a) 20
	b) 30
	c) 40
	d) 10

	Let P: I am in Delhi.; Q: Delhi is clean.; then q \land p(q and p) is? a) Delhi is clean and I am in Delhi b) Delhi is not clean or I am in Delhi c) I am in Delhi and Delhi is not clean d) Delhi is clean but I am in Mumbai Let P: This is a great website, Q: You should not come back here. Then 'This is a great website and you should come back here.' is best represented by? a) ~P V ~Q b) P \land ~Q c) P V Q
9)	d) P \(\text{Q}\) What is the converse of the conditional statement "If it ices today, I will play ice hockey tomorrow." a) "I will play ice hockey tomorrow only if it ices today." b) "If I do not play ice hockey tomorrow, then it will not have iced today." c) "If it does not ice today, then I will not play ice hockey tomorrow." d) "I will not play ice hockey tomorrow only if it ices today."
	What are the inverse of the conditional statement "If you make your notes, it will be a convenient in exams." a) "If you make notes, then it will be a convenient in exams." b) "If you do not make notes, then it will not be a convenient in exams." c) "If it will not be a convenient in exams, then you did not make your notes." d) "If it will be a convenient in exams, then you make your notes 1) Let P (x) denote the statement "x > 7." Which of these have truth value true? a) P (0) b) P (4) c) P (6) d) P (9)
12	2) "The product of two negative real numbers is not negative." Is given by? a) $\exists x \ \forall y \ ((x < 0) \land (y < 0) \rightarrow (xy > 0))$ b) $\exists x \ \exists y \ ((x < 0) \land (y < 0) \land (xy > 0))$ c) $\forall x \ \exists y \ ((x < 0) \land (y < 0) \land (xy > 0))$ d) $\forall x \ \forall y \ ((x < 0) \land (y < 0) \rightarrow (xy > 0))$
•	The greatest common divisor of 12 and 18 is? a) 2 b) 3 c) 4 d) 6 The quotient when 19 is divided by 6 is? a) 1 b) 2 c) 3 d) 0
15)	A floor function map a real number to a) smallest previous integer b) greatest previous integer

16) 17 a) b) c)	d) greatest following integer Floor(2.4) + Ceil(2.9) is equal to a) 4 b) 6 c) 5 d) 10) Let Q(n) be the predicate "n is a factor of 8." What is the truth set of Q(n) if the domain of n is the set of all positive integers? {2, 4} {2, 4, 8} {1, 2, 4, 8} {1, 2, 4, 8} {-8, -4, -2, -1, 1, 2, 4, 8}
18) a) b) c) d)) Which of the following is false? The product of any two odd integers is odd. The difference of any two odd integers is odd. The difference of any two even integers is even. The product of any two even integers is even.
a) b) c) d) 20) a) b) c)	3
22)	In the principle of mathematical induction, which of the following steps is mandatory? a) induction hypothesis b) inductive reference c) induction set assumption d) minimal set representation For every natural number k, which of the following is true? a) $(mn)^k = m^k n^k$
	b) $m*k = n + 1$ c) $(m+n)^k = k + 1$ d) $m^k n = mn^k$
24)	Which of the following function f: $Z X Z \rightarrow Z$ is not onto? a) $f(a, b) = a + b$ b) $f(a, b) = a$ c) $f(a, b) = b $ d) $f(a, b) = a - b$ Let f and g be the function from the set of integers to itself, defined by $f(x) = 2x + 1$ and $g(x) = 3x + 4$. Then the composition of f and g is
	b) $6x + 7$

c) smallest following integer

c) $6x + 6$
d) $6x + 8$
25) For the sequence $a_n = 6$. $(1/3)^n$, a_4 is
a) 2/25
b) 2/27
c) 2/19
d) 2/13
26) What is the base case for the inequality $7^n > n^3$, where $n = 3$?
a) 652 > 189
b) 42 < 132
c) 343 > 27
d) 42 <= 431
27) A formula developed in which every previous term is used to define the next term, is
called
a) explicit
b) induction
c) recursive
d) countable
28) For $A = \{1,2,3,4\}$ and $B = \{1,2,3,4\}$ the function, $f = \{(1,1), (23), (3,4), (4,2)\}$ is
a) One- one
b) Onto
c) Neither one-one nor onto
d) Both one –one and onto
29) The sum of the series $1 + (1/3) + (1/3^2) + (1/3^3) + \dots$
a) 2
b) 3/2
c) 2/3
d) 4/3
30) The function $f: R \to R$ defined by $f(x) = 3 - 4x$ is
a) Onto
b) Not onto
c) Not one-one
d) Not bijective
31)
A relation on a set A is a relation from to
a) A; B
b) A; A
c) B; B
d) B; A
32) The congruence modulo 2 relation E is defined from \mathbf{Z} to \mathbf{Z} as follows:
For all integers m and n, mEn \Leftrightarrow m - n is even.
Which of the following is true?
a) 5 <i>E</i> 2
b) 3E0
c) -1E7
d) 4E1
33)
To show that a relation R on an infinite set A is symmetric, you suppose that and you show that
a) x and y are any elements of A such that x R y; y R x

c) x	x is any element of A; x R x x, y, and z are any elements of A such that xRy for all x and y in A, if xRy then yRx	y and y R z; x R z	
34) To show that	a relation R on an infinite set A is transitive, yo	ou suppose that	and you show that
b) x and y a	z are any elements of A such that xRy and yR are any elements of A such that xRy ; yRx element of A; xRx	R z; x R z	
d) for all x, y	y, and z in A, if xRy and yRz then xRz		
35) Determine the a) {3,5}, {3,6,7}, b) {3}, {4,6}, {5} c) {3,4,6}, {7} d) {5,6}, {5,7}		following subsets.	
a) {-21, -18, -11	1, -4, 3, 10, 17, 24} , 5, 0, 6, 10}	7) such that $-21 \le x \le$	≦21.
a) a walk without r b) a cycle with repe c) a walk with repe	eated edges		
38) An n-vertex gra a) n ² b) n-1 c) n*n d) n*(n+1)/2	raph has edges.		
39) Degree of a gra a) 25 b) 56 c) 24 d) 212	raph with 12 vertices is		
40) In a finite grap a) even b) odd c) even or odd d) infinite	oh the number of vertices of odd degree is alw	ays	
41) If A and \bar{A} are co a) 1+P(b) 1-P(A			

c)	P(A)
	-P(A)
42) If A at	and B are independent events then, conditional probability $P(A/B) = \dots$
	P(A)-P(B)
	P(A)
	P(B)
	P(A)+P(B)
43) A statis	tical experiment means
	Action which has reaction
,	Action which has a certain outcome
	Action which has no outcome
,	Action which has uncertain outcome
	ents are said to be mutually exclusive when
a)	Both of them occur together
b)	None of them occur
c)	Occurrence is uncertain
d)	Only one them occurs
45)	
A bag con	tains 3 copper coins and 7 silver coins. If a coin is drawn, then the chance to get a silver
coin is	
a)	7/3
,	3/7
	7/10
d)	3/10
46) A vari	able x capable of taking values x1, x2, x3,, xn with respective probabilities p1, p2,
	on then it is called
	Continuous random
,	Continuous
,	Discrete random variable
,	Discrete
47) There a	re 12 points in a plane, no three of which are collinear. Find a) How many straight
lines can be	e drawn? b) How many triangles can be drawn?
a) 12,	3
b) 12,	2
c) 66,	
d) 132	
19) At on al	action there are 5 condidates and 2 members are to be elected and a voter is antitled
	ection there are 5 candidates and 3 members are to be elected and a voter is entitled any number to be elected but not more than members to be elected. In how many
	er can cast his vote?
a) 15	reast his vote.
b) 20	
c) 25	
d) 30	
,	
49)	
Suppose P($A B) = 1/2$ and $P(A \cap B) = 1/6$. What is $P(B)$?

- a) 3
- b) 1/6
- c) ½
- d) 1/3

50) A drawer contains ten black and ten white socks. You reach in and pull some out without looking at them. What is the least number of socks you must pull out to be sure to get a matched pair?

- a) 1
- b) 2
- c) 3
- d) 4

Sample Question Bank

Asst. Prof. Mithilesh Chauhan

Regular Examination

BScIT SEM-I

Subject: Digital Electronics
 The number 23 is Hexadecimal number. Convert it in binary. A. 111111 B. 101011 C. 100011 D. 100010
 2. The number 1010101010110 is binary. Convert it in hexadecimal. A. 2A96 B. 10101010010110 C. ABA2 D. AA52
3. The number 134 is octal number. Convert it in Hexadecimal. A. 43 B. 5C C. C5 D. 512
 4. The number ABCD is Hexadecimal number. Convert it in binary. A. 1010001111001101 B. 1010101111001101 C. 1011111011110001 D. 1111101111001101
 5. The number 10101001 is binary. Covert it to gray code. A. 11001101 B. 11111100 C. 11111101 D. 10101011
6. The hamming code for 1001 using even parity is A. 0011111 B. 0011001 C. 1101011 D. 1001100
7. Hamming code 1110001 has error on position. Use odd parity.

A. 1 B. 3
C. 2
D. No error
8. ASCII is bit code.
A. 5
B. 4 C. 7
D. 9
9. ASCII of character '1' is
A. 48
B. 51 C. 49
D. 50
10. ASCII of character 'a' is A. 97
B. 65
C. 48
D. 49
11. AND gate has inputs and 1 output.
A. N>=1
B. N>=2
C. N>=3
D. N>=4
12. In logic gates alphabet is use to represent output.
A. W
B. X
C. Y
D. Z
13. The output of a two-input AND gate is high
A. Only if both the inputs are high
B. Only if both the inputs are low
C. Only if one input is high and the other is low
D. If at least one input is low
14. The output of two-input NOR gate is high
A. Only if both the inputs are high
B. Only if both the inputs are low
C. Only if one input is high and the other is lowD. If at least one input is high
. 0
15. Which of the following is applicable to AND gate?

A. Y=A+B B. Y=A-B C. Y=A.B
D. Y=A/B16. Which of the following is not valid for AND gate?
A. Y=AB B. Y=A.B C. Y=A AND B D. Y=A*B
17 is invert of AND gate.
A. NOT B. OR C. NAND D. NOR
18. Which of the following is applicable to NOR gate?
A. $Y = \overline{A + B}$ B. $Y = \overline{A \cdot B}$ C. $Y = \overline{A \cdot B}$ D. $Y = \overline{A - B}$
19. A+0=
A. A B. A'(A bar) C. 0 D. 1
20. A.0=
A. A B. A'(A bar) C. 0 D. 1
21. To design a binary to gray converter gate is used.
A. AND B. OR C. NOR D. XOR
22. To design a gray to binary converter gate is used.
A. AND B. OR C. NOR D. XOR

23. For converting binary to gray; binary bit added to next position	bit.
A. Binary B. Gray C. X3 D. BCD	
24. Half adder can perform addition of bits.	
A. 1 B. 2 C. 3 D. 4	
25. Half subtractor can perform subtraction of bits.	
A. 1 B. 2 C. 3 D. 4	
26. Full subtractor can perform subtraction of bits.	
A. 1 B. 2 C. 3 D. 4	
27. Using Full subtractor; if input A=1, B=0, and C=1 then difference =_borrow=(A is MSB)	and
A. 0,0 B. 0,1 C. 1,0 D. 1,1	
28. In active low circuit ON=, OFF=	
A. 0,1B. 1,0C. Both are same.D. There is no such circuit.	
29. An 8 bit adder produces sum of bits	
A. 2 B. 4 C. 8 D. 16	
30. A 8 bit adder can perform addition of	

	A. 4 bitsB. Two numbers each of 8 bitsC. Two numbers each of 4 bits.D. 8 bits
31.	In multiplexer input to output routine is controlled by lines.
	A. ControlB. DataC. SelectD. Current
32.	Multiplexer is called
	A. Data selectorB. Data distributorC. Data creatorD. Data destroyer
33.	In there are 4 inputs in multiplexer then OR gate/s will be used to design it.
	A. 1 B. 2 C. 4 D. 0
34.	In there are 4 inputs in multiplexer then AND gate/s will be used to design it.
	A. 1 B. 2 C. 4 D. 0
35.	In 4:1 multiplexer, select line will be used.
	A. 1 B. 2 C. 3 D. 4
36.	In design table if both rows are circled then we put logic
	A. 0 B. 1 C. A D. A'
37.	In design table if no rows are circled then we put logic

	A. 0 B. 1 C. A D. A'		
38.	3. In design table if only top row	v is circled then we put logic	
	A. 0 B. 1 C. A D. A'		
39.	9. In demultiplexer input to outp	out routine is controlled by	lines.
	A. ControlB. DataC. SelectD. Current		
40.). Demultiplexer is called	·	
	A. Data selectorB. Data distributorC. Data creatorD. Data destroyer		
41.	is a type of counter.		
	A. AsynchronousB. DigitalC. AnalogD. Register2 is a type of counter.		
	A. Digital B. Synchronous C. Analog D. Register		
43.	3. In ripple counter last flip-flop	becomes	
	A. LSB B. MSB C. Worst D. Best		
44.	4. To design modulo 10 counterA. 2B. 4	flip-flop are used.	

	C.	8
	D.	10
45.	If s	tates in counter are 3,4,5,6,7 then it is a/an counter.
	A.	Up
	B.	Down
	C.	Left
		Right
46.		counter have problem of glitch.
	A.	Asynchronous
	B.	Synchronous
	C.	Register
	D.	Automatic
47.		counter has less settling time.
	A.	Asynchronous
	B.	Synchronous
	C.	Register
	D.	Automatic
48.	Syı	nchronous counter is
	A.	Serial
	B.	Parallel
	C.	Horizontal
	D.	Vertical
49.	As	ynchronous counter is
	A.	Serial
	B.	Parallel
	C.	Horizontal
	D.	Vertical
50.		counter has speed limitation.
	A.	Asynchronous
		Synchronous
	C.	Register
		Automatic