11th COMPUTER SCIENCE

VOLUME-I [UNIT I & II]

CHAPTER 1-8

[COMPLETE BOOK BACK ONE MARKS]

UNIT I –FUNDAMENTALS OF COMPUTER AND WORKING WITH A TYPICAL OPERATING SYSTEMS (WINDOWS & LINUX)

CHAPTER – 1

INTRODUCTION TO COMPUTER

1. First generation computers used					
(a) Vacuum tubes	(b) Transistors	(c) Integrated circuits	(d) Microprocessors		
2. Name the volatile men	mory				
(a) ROM (b) PROM (c) RAM (d) EPROM (d) EPROM					
(a) Keyboard	(b) Memory	(c) Monitor	(d) Mouse		
4. Identify the input devi	ice				
(a) Printer	(b) Mouse	(c) Plotter	(d) Projector		
5 Output d	evice is used for printi	ng building plan, flex board, e	tc.		
(a) Thermal printer	(b) Plotter	(c) Dot matrix	(d) inkjet printer		
6. In ATM machines, wh	nich one of the following	ng is used to			
(a) Touch Screen	(b) speaker	(c) Monitor	(d) Printer		
7. When a system restarts which type of booting is used.					
(a) Warm booting	(b) Cold booting	(c) Touch boot	(d) Real boot.		
8. Expand POST					
(a) Post on self Test	(b) Power on Softwa	re Test c) Power On Self Te	est (d) Power on Self Text		
9. Which one of the following is the main memory?					
(a) ROM	(b) RAM	(c) Flash drive	(d) Hard disk		
10. Which generation of computer used IC's?					
(a) First	(b) Second	(c) Third	(d) Fourth		

CHAPTER - 2

NUMBER SYSTEM

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Part - I				
1. Wł	nich refers to the numbe	er of bits processed by	a computer's CPU?	
	A) Byte	B) Nibble	C) Word length	D) Bit
2. Ho	w many bytes does 1 K	ilo Byte contain?		
	A) 1000	B) 8	C) 4	D) 1024
3. Ex	pansion for ASCII			
	A) American School	Code for Information	Interchange	
	B) American Standa	ard Code for Informa	tion Interchange	
	C) All Standard Code	e for Information Interc	change	
	D) American Society	Code for Information	Interchange	
4. 2^5	50 is referred as			
	A) Kilo	B) Tera	C) Peta	D) Zetta
5. Ho	w many characters can	be handled in Binary (Coded Decimal System	1?
	A) 64	B) 255	C) 256	D) 128
	A) F hat is the 1's complement	B) E	BDALLAS	
	A) 00100110	B) 11011001	C) 11010001	D) 00101001
8. Wł	nich amongst this is not	, ,	,	, ,
	A) 645	B) 234	C) 876	D) 123
Part -]	II			
1. Wł	nich is a basic electronic	c circuit which operate	s on one or more signa	ıls?
	(A) Boolean algebra	(B) Gate (C) Fu	indamental gates	(D) Derived gates
2. Wł	nich gate is called as the	e logical inverter?		
	(A) AND	(B) OR	(C) NOT	(D) XNOR
3. A -	+ A = ?			
	(A) A	(B) O	(C) 1	(D) A
4. NC	OR is a combination of a	?		
	(A) NOT(OR)	(B)NOT(AND)	(C) NOT(NOT)	(D) NOT(NOR)
5. NA	ND is called as O	fate		
	(A) Fundamental Gat	e (B) Derived Gate	(C) Logical Gate	(D) Electronic gate

CHAPTER – 3 **COMPUTER ORGANIZATION** 1. Which of the following is sadi to be the brain of a computer? (a) Input devices (b) Output devices (c) Memory device (d) Microprocessor 2. Which of the following is not the part of a microprocessor unit? (a) ALU (b) Control unit (c) Cache memory (d) register 3. How many bits constitute a word? (a) 8 (b) 16 (c) 32 (d) determined by the processor used. 4. Which of the following device identifies the location when address is placed in the memory address register? (a) Locator (c) decoder (d) multiplexer (b) encoder 5. Which of the following is a CISC processor? (a) Intel P6 (b) AMD K6 (c) Pentium III (d) Pentium IV 6. Which is the fastest memory? (a) Hard disk (b) Main memory (c) Cache memory (d) Blue-Ray dist 7. How many memory locations are identified by a processor with 8 bits address bus at a time? (b) **1024** (d) 8000 (a) 28 (c) 256 8. What is the capacity of 12cm diameter DVD with single sided and single layer? (a) 4.7 GB (b) 5.5 GB (d) 2.2 GB (c) 7.8GB 9. What is the smallest size of data represented in a CD? (a) blocks (b) sectors (c) pits (d) tracks 10. Display devices are connected to the computer through. (d) VGA connector (a) USB port (b) Ps/2 port (c) SCSI port

CHAPTER-4

THEORETICAL CONCEPTS OF OPERATING SYSTEM

1) Operating system is a

	A) Application Softw	are B) Hardware	C) System So	ftware	D) Component
2) Identify the usage of Operating Systems					
	A) Easy interaction between the human and computer				
	B) Controlling input & output Devices				
	C) Managing use of main memory				
	D) All the above				
3) Wh	ich of the following is	not a function of an O	perating System?		
A) Process Management B) Memory Management					
	C) Security management D) Complier Environment				
 4) Which of the following OS is a commercially licensed Operating system? A) Windows B) UBUNTU C) FEDORA D) REDHAT 					
5) Which of the following Operating systems support Mobile Devices?					
	A) Windows 7	B) Linux	C) BOSS	D) iOS	ł
6) File Management manages					
	A) Files	B) Folders	C) Directory systems	D) All	the Above
7) Interactive Operating System provides					
	A) Graphics User In	terface (GUI)	B) Data Distribution		
	C) Security Managem	nent	D) Real Time Process	sing	
8) Android is a					
A) Mobile Operating system		B) Open Source			
	C) Developed by Goo	ogle	D) All the above		
9) Which of the following refers to Android operating system's version?					
	A) JELLY BEAN	B) UBUNTU	C) OS/2	D) MI	ITIKA

CHAPTER – 5

WORKING WITH TYPICAL OPERATING SYSTEMS

1. From the options given below, choose the operations managed by the operating system.					
a. Memory	b. Processor	c. I/O devices	d. all of the above		
2. Which is the default folder for many Windows Applications to save your file?					
a. My Document	b. My Pictures	c. Documents and Se	ttings d. My Computer		
3. Under which of the follow	ing OS, the option Shi	ft + Delete – permaner	ntly deletes a file or folder?		
a. Windows 7	b.Windows 8	c.Windows10	d. All of the OS		
4. What is the meaning of "H	libernate" in Windows	XP/Windows 7?			
a. Restart the Compu	ter in safe mode				
b. Restart the Compu	ter in hibernate mode				
c. Shutdown the Com	puter terminating all t	he running applications	S		
d. Shutdown the Computer without closing the running applications					
5. Which of the following OS is not based on Linux?					
a. Ubuntu	b. Redhat	c. CentOs	d. BSD		
6. Which of the following in Ubuntu OS is used to view the options for the devices installed?					
a. Settings	b. Files	c. Dash	d. VBox_GAs_5.2.2		
7. Identify the default email	client in Ubuntu.				
a. Thunderbird	b. Firefox	c. Internet Explorer	d. Chrome		
8. Which is the default applied	cation for spreadsheets	in Ubuntu? This is ava	ailable in the software		
launcher.					
a. LibreOffice Writer	b. Lil	breOffice Calc			
c. LibreOffice Impres	d. Lib	reOffice Spreadsheet			
9. Which is the default brows	ser for Ubuntu?				
a. Firefox	b. Internet Explorer	c. Chrome	d. Thunderbird		
10. Where will you select the	e option to log out, sus	pend, restart, or shut de	own from the desktop of		
Ubuntu OS?					
a. Session Indicator	b. Launcher	c. Files	d. Search		

1. Which of the following activities is algorithmic in nature?

UNIT II ALGORITHMIC PROBLEM SOLVING

CHAPTER 6

SPECIFICATION AND ABSTRACTION

(a) Assemble a bicy	cle. (b)) Describe a bicycle.		
(c) Label the parts of	(c) Label the parts of a bicycle. (d) Explain how a bicycle works.			
2. Which of the following activities is not algorithmic in nature?				
(a) Multiply two numbers. (b) Draw a kolam.				
(c) Walk in the park. (d) Braid the hair.				
3. Omitting details inessential to the task and representing only the essential features of the task is				
known as				
(a) specification	(b) abstraction	(c) composition	(d) decomposition	
4. Stating the input property and the as :-output relation a problem is known				
(a) specification	(b) statement	(c) algorithm	(d) definition	
5. Ensuring the input-output	relation is			
(a) the responsibility of the algorithm and the right of the user.				
(b) the responsibility of the user and the right of the algorithm.				
(c) the responsibility of the algorithm but not the right of the user.				
(d) the responsibility of both the user and the algorithm.				
6. If $i = 5$ before the assignment $i := i-1$ after the assignment, the value of i is				
(a) 5	(b) 4	(c) 3	(d) 2	
7. If $0 < i$ before the assignment $i := i-1$ after the assignment, we can conclude that				
(a) 0 < i	(b) $0 \leq i$	(c) $i = 0$	(d) 0 ≥i	

CHAPTER 7

COMPOSITION AND DECOMPOSITION

1. Suppose u, v = 10, 5 before the assignment. What are the values of u and v after the sequence of assignments?

 $1 \ u := v$ 2 v := u

(b) u, v = 5, 10(c) u, v = 10, 5(d) u, v = 10, 10(a) u, v = 5, 5

2. Which of the following properties is true after the assignment (at line 3?

(b) i+j < 0

1 - i + j = 02 i, j := i+1, j-1 3 -- ? (a) i+j > 0

(c) i+j =0 (d) i = j

3. If C1 is false and C2 is true, the compound statement

if C1 1 2 **S**1 3 else if C2 4 5 S2 6 else 7 **S**3 Executes (a) S1 (b) S2 4. If C is false just before the loop, the control flows through 1 **S**1 2 while C 3 **S**2 **S**3 4 (a) S1; S3 (b) S1 ; S2 ; S3 (c)S1;S2;S2;S3 (d) S1;S2;S2;S2;S3 5. If C is true, S1 is executed in both the flowcharts, but S2 is executed in true S1 true S1 fals (1) (2) (a) (1) only (b) (2) only (c) both (1) and (2) (d) neither (1) nor (2) 6. How many times the loop is iterated? i := 0while $i \neq 5$ i := i + 1 (a) 4 (b) 5 (c) 6 (d) 0

CHAPTER 8 ITERATION AND RECURSION 1. A loop invariant need not be true (a) at the start of the loop. (b) at the start of each iteration (c) at the end of each iteration (d) at the start of the algorithm 2. We wish to cover a chessboard with dominoes, the number of black squares and the number of white squares covered by dominoes, respectively, placing a domino can be modeled by (a) b := b + 2(b) w := w + 2(c) b, w := b+1, w+1 (d) b := w3. If m x a + n x b is an invariant for the assignment a, b := a + 8, b + 7, the values of m and n are (a) m = 8, n = 7(b) m = 7, n = -8(c) m = 7, n = 8(d) m = 8, n = -74. Which of the following is not an invariant of the assignment? m, n := m+2, n+3 (a) m mod 2 (c) 3 X m - 2 X n (b) n mod 3 (d) 2 X m - 3 X n 5. If Fibonacci number is defined recursively as 1 = 1F(n = 1) + F(n = 2) otherwise F(n) =to evaluate F(4), how many times F() is applied? (a) **3** (b) 4 (c) 8(d) 9 6. Using this recursive definition if n = 0otherwise a x a^{n -1} how many multiplications are needed to calculate a10? (b) 10 (c) 9 d) 8 (a) 11 M.VIJAYA KUMAR, MCA., M.Phil., B.Ed., PGDCA., V.SUJITHA, MCA., M.Phil., PGT-COMPUTER TEACHER, COMPUTER TEACHER, SASTRA MATRICULATION HIGHER SECONDARY SCHOOL, **KILPENNATHUR, TIRUVANNAMALAI 604601** Mobile No : 9655826843 Email: vijay28soft@gmail.com ***ALL THE BEST***