DEPARTMENT OF GOVERNMENT EXAMINATIONS

HIGHER SECONDARY FIRST YEAR EXAMINATION - MARCH – 2018

KEY ANSWERS FOR COMPUTER SCIENCE

Note:
1. Answers written only in BLACK or BLUE should be evaluated.
2. In Section – I Choose the correct answer and write the option code with corresponding answer.
3. Mark shall also be awarded either for the correct option code or for the correct corresponding answer alone. **(This year only)**
4. If one of them (option or answer) is wrong, then award zero mark only.

Maximum Marks - 70

Section - I

Answer all the Questions						15×1=15
1	b	2	9	b	System tray	
2	a	Lotus 1-2-3	10	b	Ctrl	
3	d	2^{10}	11	b	Display properties	
4	d	4:3	12	c	passwd	
5	b	2	13	d	&	
6	a	Direct Memory Access	14	c	Auto	
7	d	System Software	15	a	get	
8	a	3				

SECTION – II

	Answer any Six Questions (Question No.16 is Compulsory) 6×2=12	
16	A literal is the appearance of a variable or its complement in a Boolean expression.	2
17	• Temporary storage area inside the CPU. • They are high-speed memories. • Hold data for immediate processing and results of the processing. (or) The registers (internal memory) are used to hold the instruction and data for the execution of the processor.	2
18	(or) <table><tr><th colspan="2">Input</th><th>Output</th></tr><tr><td>A</td><td>B</td><td>C</td></tr><tr><td>0</td><td>0</td><td>1</td></tr><tr><td>0</td><td>1</td><td>0</td></tr><tr><td>1</td><td>0</td><td>0</td></tr><tr><td>1</td><td>1</td><td>0</td></tr></table>	1 1
19	1. Analog data transmission 2. Digital data transmission	2
20	Windows XP is an user friendly operating system It is GUI based operating system	2
21	A folder is a collection of related files or subfolders.	2
22	Man command display helps on any Linux command.	2

1

23	Any 4	
	Start, End Input, Output Calculations Decision Direction of control flow Connector	2
24	A style attribute can also be used with some HTML tags to change the characteristics of the tag on which it is applied. If the style is used as an attribute, it will affect only that tag in which it is specified.	2

SECTION – III

Answer any Six Questions and Question No.29 is compulsory	6×3=18
25	• Workstations • Personal Computers • Laptop Computers • Palm PCs	3
26	• A maxterm is a sum term in a Boolean expression, which includes all possible variables in true or complement form.	3
27	• registers • cache • primary memory • secondary memory	3
28	A sequential circuit is a logic circuit who's output are based on, not only the inputs present at that time, but also on the previous state output are called sequential circuits.	3
29	In Distributed Operating System the user's job is executed in an idle machine in the network and the result is communicated to the user machine. Distributed Operating System ensures that the entire network behaves as a single computer All the computer become a part of one or other network.	3
30	• First start one application. The application appears on the screen in a window. At the same time, a button with the name of the application appears on the taskbar. • Now, start the second application the window of the second application appears on the screen. The button of the second application appears in the taskbar, • The title bar of the first application and its button on the task bar become dim, the buttons on the taskbar are used to switch between the different applications.	3
31	• The Run command on the Start menu offers an alternate method, to start applications or open data files. • Start → Run command is used to open run dialog box	3

32			
	cat command	**more command**	
	1. Display the content of the file and if the file is lenthy it shows the end of the page. 2. We cannot move the page in forward or backward direction.	1. Display the content of the file page by page. 2. We can move the page in forward or backward direction using 'f' or 'b' key.	3

33	An algorithm is a procedure with the following properties. • There should be a finite number of steps. • Each step is executable without any ambiguity. • Each step is executable within a finite amount of time, using a finite amount of memory space. • The entire program should be executed within a finite amount of time.	3

SECTION – IV

Answer all the questions   5×5=25

34	First Generation - 1940-1956: Vacuum Tubes Second Generation - 1956-1963: Transistors Third Generation - 1964-1971 : Integrated Circuits Fourth Generation - 1971-Present : Microprocessors Fifth Generation - Present and Beyond: Artificial Intelligence **with explanations** (OR) **Using 4 bit calculation** **Using 8 bit calculation** a. 11001 a. 00011001 b. 1001 b. 11111001 c. 0100 c. 00000100	5

35	• Keyboard • Mouse • Scanner • Bar code reader • Digital camera • Touch sensitive screen • MICR • OCR • OMR • Light pen • Magnetic reader. (Any Five with Explanations) (OR) The steps involved in designing the logic circuit: Step 1 : Statement of the problem given. Step 2 : Identify inputs and outputs. Step 3 : Formulate truth table. Step 4 : Convert the truth table to a Boolean function. Step 5 : Realization of the Boolean function into a logic Circuit Diagram. Explanation with suitable example	5

36	1. FIFO. 2. SJF 3. Round Robin. 4. Based on Priority. (With Explanations) **(OR)** Text boxes List boxes Drop-down lsit boxes Radio buttons Check boxes Buttons Tabs Sliders (With Explanations)	5
37	Star network Ring network Bus network Hybrid network FDDI network (With Explanations) **(OR)** System administrator / root user File owner Group owner Other usres (With Explanations)	5
38	Relevant 'C' Program **(OR)** <table> - To Create Table <tr> - To Create Table Row <th> - To insert a new cell - represent the Column Heading <td> - To represent a entry in the table **Attributes** Border, Bgcolor, cell spacing and cell spadding (with explanations) **(Any Relevant Example)**	5