Zonal Education Office- Vavuniya south

First term exam-2020

Information & Communication Technology

Gr	ade 10						
	Part – I						
1.	 Which of the following is not a data 1) Price of a thing 2) A student's Maths marks 3) Kumar got 1st rank in his class 4) First four numbers of NIC card 						
2.	Which of the following is not a characteristic of qu	ality information					
	1) Accuracy	3) Completeness					
	2) Timeliness	4) increase the cost					
3.	 Which machine helps to take three dimensional (3 1) MRI (Magnetic Resonance Imaging machine) 2) ECG(Electrocardiogram Machine) 3) CAT (Computerized Axial Tomography Machine 4) 4) Cardiac Screening Machine) 						
4.	Who invented thepunch card?						
	1) Charles Babbage	3) Ada Lovelace					
	2) Joseph Marie Jacquard	4) Herman Hollerith					
5.	 Which generation used Micro Chips 1) 1st generation 2) 2nd generation 	3) 3 rd generation 4) 4 th generation					
6.	OCR standard for						
	1) Optical Character Reader	3) Optical card reader					
	2) Online Computer Retrieval	4) Office Cash Reader					
7.	Which of the following is considered as an input a	nd output device					
	1) Touch screen	3) webcam					

4) printer

2) Joystick

8.	Which type of con	nputer is ECG	machine				
	 Analog comp 	3) digital computer					
	2) Hybrid comp	outer			4) Super con	nputer	
9.	Which device help	s to check th	e accuracy o	fa cheque			
	1) MICR	2) OCR	3) OMR	,	4) Barcode r	eader	
10.	Volatile memory is	5					
	1) Flash memo	1) Flash memory					
	2) Memory ca	rd			4) ROM		
11.	Which unit is use	d to measure	clock speed	l of a compu	ter		
	1) Mbps	2) Gbps	3)0	GHz	4) bp	S	
12.	Which one of the	following is n	ot a charact	eristic of a co	omputer		
	1) Speed	2) accura	cy 3)	efficiency	4) fe	eling	
13.	Which one is not	suitable for E	BCD				
	1) 1001	2) 0111	3)	1010		4) 0101	
14.	The storage capa	city of USB fla	ash drive is 8	GB. What is	the equivale	ent of this	
	1) 2 ²⁰ KB	2) 2 ¹³ MB	3)	2 ¹³ KB		4) 2 ²³ byte	
15.	Which one is equ	ivalent of 50 ₁	10.				
	1) 1100101 ₂	2) 62	8 3)	33 ₁₆	4) 64	-8	
16.	16. Which one is not equivalent of 143 ₈						
	1)9910	2) 11	000112	3)63 ₁₆	4) 1100110	O_2	
17.	What coding syst	em is represe	ented by 16	oits			
	1)BCD	2) AS	SCII	3) Unic	ode 4)	EBCDIC	
18.	Sort the numbers	J					
	1) 110101 ₂ > 2. 3) 2A ₁₆ >11010		ŕ	$25_8 > 2A_{16} > 1$	101012		
	<i>3) 41</i> 116/11010	J12>4J8	4) 110101	2/4/116/438			

10	Malaiah aabla ia waadin C				
19.	Which cable is used in (1) Coaxial cable	CIV	3) Fiber optics		
	2) Microwave		•	Twisted pair	
	,		·	·	
20.	107xwhat is the equival	ent value of X			
	1) 2>8>10	2.8>16>10	3.10>16>2	4. 2>8>16	
21	Which of the following	has fastest data trans	mission media		
21.	1) Coaxial cable	nas rastest data trans	3) Fiber o	otics	
	2) Microwave		4) Twisted		
22.	Which data transmissio	n mode is explained b	by this image?		
	Data source		receiver		
	Data source				
	1) Full duplex		•	Half duplex	
	2) Simple duplex		4)	Twisted pair	
23.	Which of the following	has large capacity			
	1) Cache memory	, ,	3)	Hard disk	
	2) RAM		4)	Magnetic tape	
24			: di-it of 45 240	Nanana ati sahi	
24.	Find the most significan 1) 2,1	it digit and least signif 2) 4,1	3) 4,0	4) 5,0	
	-, -,-	_, .,_	3, 1,3	., 5,6	
25.	Who invented the Addi	ng machine			
	1)Blaise Pascal	2) Howard Aiken	3) Charles Babba	ge 4) Ada Lovelace	
			,	,	
	Television is the examp	le of			
	1) Full duplex		3) Half du	•	
	2) Simple duplex		4) Full & h	air dupiex	
27.	Find the Hexadecimal n	umber , equivalent of	f 77 ₈		
	1) 3E ₁₆ 2) 3F ₁	6 3) 2E ₁₆	4)2B ₁₆		
28.	Which type of printer is	used in ATM machine	<u>.</u>		
	1) Line printer		3) Dot ma	trix printer	
	2) Thermal printer		4) Bubble	printer	

29.	. Find the technology u	sed in ENI	AC computer					
	1) Micro chips2) Vacuum Tubes			3) Integrated Circuit4) Medium Scale Integrated Circuit				
20	If "D" character is now		a 1010000 in	ACCII avesta	\A/batia th	o ACCII anda fa	, lotto, "F")	
30.	. If "P" character is rep						rietter F ?	
	1) 1011000	2) 100	1110	3) 1010	010	4) 1010001		
							(30:	x1=30)
				Part II				
An	swer five questions inc	cluding 1 st (question.					
(1)								
	(1)Give one example	of the foll	owing E-Gove	rnment se	rvices.			
	I. G2C II.G	62E	III.G2B					
	(2)Convert the number AF7 ₁₆ in to binary number							
	(3) Convert the number 110010101_2 in to octal number.							
	(4) Give three computer network devices.							
	(5) Write three data transmission modes with its examples							
	(6)What are the main parts of CPU							
	(7) Give three optical media devices							
	(8)If 'B' character is represented as 1000010_2 in ASCII system, what is the ASCII code for letter 'ICT'							
	(9) Give 2 advantages and a disadvantage of online shopping							
	(10) Give two hard co	opy output	devices				(10x3=30)	
(2	11 What are the turner	c of notwo	rkcO					
(2) 1. What are the types							
	2 Give one advantag	e and one	disadvantage	of mesh t	onology			

3. Write one different between hub and switch

	5. Write the function of router			(5x2=10)				
3)	Fill in	the following t	able from A to	H. Show yo	ur calculat	ions briefly.		
	1							
	1.	Base	2	Α	10	В		
		Num - 1	1100101	<u>C</u>	101	D 255		
		Num - 2 Num - 3	E G	1345 771	F 505	2E5 <i>H</i>		
		Nuili - 3	G	//1	303	п		
	2. Kui	mar is sending	the following n	nessage usir	ng ASCII co	ding system	to his friend Ravi.	
	Finc	the message v	which is sent h	/Kumar If'	Δ' characti	ar is ranrasa	ented as 65 in decimal number?	
	11110	the message v	Willeli 13 Selle D	, Kumar, m	A charact	er is represe	inted as 65 m decimal number :	
							(8+2=10)	
4)	1. Giv	e two example	es of guided me	edia.				
	2 \\/-	ita tura davisas	using infrared					
	Z. VVI	ite two devices	using inirared	waves				
3. Give two magnetic storage devices								
	4. Wh	4. Which port do you use to connect computer network with computer system.						
5. Classify the computer according to the size.						(5x2=10)		
5)	1. Conv	vert the followi	ng numbers int	o binary nu	ımbers			
	a) 10	710		b) 146	8			
2	2. Conv	ert the following	ng numbers in	to decimal r	numbers			
a) 101011 b) 1716								
3. Convert the following numbers in to octal numbers								
	a) 10:	1010112		b) A31	16			
4 Convert the following numbers in to Hexadecimal numbers								
	a) 453	310		b) 541	8			
	,		afilatas de e	•			/F 2 40\	
ļ	o. Write	e two benefits	oi Unicode syst	.em.			(5x2=10)	

4. Give 2 disadvantages of computer network.

- 6) 1. Write 4 educational websites in Sri Lanka.
 - 2. Give two benefits of distance learning
 - 3. Give 2 situations where ICT is used in transport service.
 - 4. What do you meant by telemedicine
 - 5. Give 3 main hardware technology used in 2nd generation computers.

(5x2=10)