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ADVANCED LEVEL NATIONAL EXAMINATIONS, 2016, TECHNICAL AND PROFESSIONAL STUDIES

EXAM TITLE: Microsoft Office and Networking

OPTIONS:

Computer Science (CSC)

Computer Science and Management (CSM) DURATION: ; 3 hours

INSTRUCTIONS:

The paper is composed of three (3) main Sections as follows:

Section I: Twenty-two (22) compulsory questions.55 marksSection II: Attempt any three (3) out of five questions.30 marksSection III: Attempt any one (1) out of three questions.15 marks

Note:

Every candidate is required to carefully comply with the above instructions. Penalty measures will be applied on their strict consideration.

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1.	What is computer networking?	3marks
	Explain the term protocol.	3marks
	What is a Digital Subscriber Line (DSL)?	3marks
	Define Nslokup tool in networking?	4marks
	Give at least five Radio waves frequencies which are used in a wide	
	range of wireless communication.	5marks
б.	Explain the considerations to bear in mind when selecting or buying a	
	NIC to use on a network?	5marks
7.	In MS-Word, for what does ruler help?	3marks
	Which portion of LAN management software restricts access, records use	er
	activities and audit data etc? Security management	2marks
9.	What is the central device in star topology? Huls Switch.	2marks
0.	Which server allows LAN users to share computer programs and data?	2marks
11.	Which topology is used for large networks? File Server	2marks
12.	Why are pairs of wires twisted together in UTP cable?	3marks
	Read carefully and fill in the following statements with the convenient re	esponse.
	NB: Write complete sentences.	
13	A character that is raised and smaller above the baseline is known as:	
	- Raised, - Capscript,	
	- Outlined, V- Superscript	2marks
14	- Outlined, \checkmark - Superscript . Which of the following formulas will not be calculated using γ - superscript	1
14		ng Excel?
14	Which of the following formulas will not be calculated using	1
,	Which of the following formulas will not be calculated usin $\checkmark = SUM(Sales);$ $\checkmark = SUM(A1:A5)/(10-10);$ = SUM(A1:A5) = 10)	ng Excel?
,	 Which of the following formulas will not be calculated usin ✓=SUM(Sales); =SUM(A1:A5)*0.5; Which button do you click to add up a series of numbers? ✓- The AutoSum button; - The Quick Total button; 	ng Excel? 2marks 2marks
15	 Which of the following formulas will not be calculated usin ✓=SUM(Sales); =SUM(A1:A5)*0.5; Which button do you click to add up a series of numbers? ✓- The AutoSum button; The Formula button; The Formula button; The Total button 	ng Excel? 2marks 2marks 2marks 2marks
15	 Which of the following formulas will not be calculated usin ✓=SUM(Sales); =SUM(A1:A5)*0.5; Which button do you click to add up a series of numbers? ✓- The AutoSum button; The Formula button; The Formula button; The Total button When using PowerPoint, to play a Power Point show for previewing 	ng Excel? 2marks 2marks 2marks 2marks
15	 Which of the following formulas will not be calculated usin ✓=SUM(Sales); =SUM(A1:A5)*0.5; Which button do you click to add up a series of numbers? ✓- The AutoSum button; The Formula button; The Formula button; The Total button 	ng Excel? 2marks 2marks 2marks 2marks
15	 Which of the following formulas will not be calculated usin ✓=SUM(Sales); =SUM(A1:A5)*0.5; Which button do you click to add up a series of numbers? ✓- The AutoSum button; The Formula button; The Formula button; The Total button 	ng Excel? 2marks 2marks 2marks 2marks
15	 Which of the following formulas will not be calculated usin ✓=SUM(Sales); =SUM(A1:A5)*0.5; Which button do you click to add up a series of numbers? ✓- The AutoSum button; The Formula button; The Formula button; The Total button When using PowerPoint, to play a Power Point show for previewing select View, slide sorter; ✓- View, slide show; 	ng Excel? 2marks 2marks 2marks the show,
15	 Which of the following formulas will not be calculated usin ✓=SUM(Sales); =SUM(A1:A5)*0.5; Which button do you click to add up a series of numbers? ✓- The AutoSum button; The Formula button; The Formula button; The Total button When using PowerPoint, to play a Power Point show for previewing select View, slide sorter; View, slide; View outline 	ng Excel? 2marks 2marks 2marks the show, 2marks
15	 Which of the following formulas will not be calculated usin ✓=SUM(Sales); =SUM(A1:A5)*0.5; Which button do you click to add up a series of numbers? ✓- The AutoSum button; The Formula button; The Formula button; The Total button When using PowerPoint, to play a Power Point show for previewing select View, slide sorter; ✓- View, slide show; 	ng Excel? 2marks 2marks 2marks the show, 2marks

	between analogue and digital signals, is called a	
	- Front end processor; - Decoder;	
	, rotti stati p	2marks
18.	The Internet offers different services. Distinguish among the following w	hich one
	listed below is incorrect?	
	- Chat room; - Electronic mail; - World Wide Web	2marks
19.	A router	2marks
	 Determines on which outgoing link a packet is to be forwarded Forwards a packet to all outgoing links Forwards a packet to the next free outgoing link Forwards a packet to all outgoing links, except the link upon upacket originated. 	
00	The Internet is an example of a	2marks
zu.	- Cell switched network; - Circuit switched network - Packet switched network;	
21.	The device operating at Data link layer is	2marks
1	√-Bridge;	
22.	If a computer on the network shares resources for others to use, it is calle	ed
	✓- Server;	
	- Client;	2marks
	- Mainframe	
Sec	tion II. Choose and answer any three (3) questions.	30marks
23.	(A) Consider the address 192.168.10.0 /28 calculate the No of subnet.	Rub -
, 	(B) What are common software problems can lead to network defects?	
	(C) Give some examples of private network addresses.	10marks
24.	Define extranet. In what companies may use extranet? List five.	10marks
	Explain four phases of how dhcp client get ip address from dhcp server.	
		10mark
	How are charts useful in Excel? Compare any three chart types available	in Excel

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27. Write formulas for the operations (a) - (d) based on the spreadsheet given below along with the relevant cell address:

	А	В	C	D	E	r san F	G
1	SNO	Name	Science	Maths	Computers	Total	Average
2	1	RUKUNDO	70	80	87	<u></u>	<u> </u>
3	2	AMANI	90	98	89	<u>-</u>	
4	3	RUGWIRO	90	90	98		
5	4	KAMANZI	60	76	78		
6	5	KALISA	50	45	67	Transi V	
7	Max	4					
8	Total			e an - C Ray	a the Maria and Anna an Anna an Anna an Anna an Anna Ann	the R	

- a. Calculate the Total Marks as sum of Science, Maths & Computers for each student and display them in column F. $=C_{1}+b_{2}+E_{2}$
- b. Calculate the average marks for each student and display them in column G. AVG (Ly, E)

15marks

- c. Calculate the highest marks in Computers and display it in cell E7. = Max (E_{2}, E_{1})
- d. Calculate the total number of students appearing for the Science test and display it in cell C8. $\simeq Count (AC2^{C}C_{c})$ 10marks

Section III. Choose and answer any one (1) question.

28. The data encapsulation is the process by which the data get modified by each layer being prepared to be transmitted over the network. During that process some layer will add different headers. Which are the OSI layer responsible for the below different types of headers:

a.	Frames	c. Packets

b. Segments d. Bits

29. Differentiate a router from a switch? And give the layer of TCP/IP model by which we found the router and the switch?

30. What is the difference between the HALF-DUPLEX and FULL-DUPLEX?

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