# THE UNITED REPUBLIC OF TANZANIA NATIONAL EXAMINATIONS COUNCIL CERTIFICATE OF SECONDARY EDUCATION EXAMINATION

136/1

# INFORMATION AND COMPUTER STUDIES 1

(For School Candidates Only)

Fime: 3 Hours

Tuesday, 18th November 2014 p.m.

### Instructions

- This paper consists of sections A. B and C
- 7 Answer all questions in sections A and B and two (2) questions from section C.
- 3 Culturar promes are not allowed in the examination room
- 4. Write som Examination Number on every page of your answer booklet(s)

Page 1 of 6

# Julius Comment

# SECTION A (30 Marks)

# Answer all questions in this section

l lor alter	each of the following items (i) = (x), choose the most correct answer among the criatives provided and write its letter beside the item number in your answer booklet.							
(i) 1	Data can be arranged in ascending or descending order by using sort command from							
	Α	Table menu	C	Tools menu	E			
1	В	Data menu	D	Sort menu				
(11)	A fi	le created using plain t ng with	lexts usi	ng note pad or DOS ed	tor will	have a file extension		
9	Δ.,	Doc	C	html	ŧ.	txt		
	В	Dat	D	exe				
		em programs which p			ser of th	e computer by providing		
		user programs		utility programs	- 1	software programs		
		simple programs		computer programs		The property of		
(iv)	Dat	ubuses with Golds or r	econds a	rranged in groups resem	bling a	from the tree are called		
		hierarchical		distributed		non-relational		
		relational		non-inerarchical		nea-jemmanin		
		TEMPORAL STATE OF THE STATE OF	1.0	macine man				
		computer generation uits (ICs) is known as		characterized by electron	ome dev	tees called integrated		
	Λ	Fifth generation	ï	Second generation	F	Fourth generation		
	В	First generation	D.	Third generation				
(vi)	The	internal handware par	ts of a c	amputer are often referr	ed to as			
	A	Insiders		Devices	1	Internal devices		
	В	Components	D	Peripheral devices				
(vii)	Αn	nouse that uses radio o	r infrare	ed waves to detect move	ment is	affed		
		a trackball mouse		an optical mouse	E	a traditional mouse		
	H	a cordless mouse	D	a standard mouse				
(viii)	First generation computers were very large physically and used thousands of electronic							
	100	gets called		Thermionic valves	E	Electronic		
		Transistors	- 6			Electronic integrator		
		Silicon chips		Integrated engine				
(1X.)	The	device that performs	the func	tion of signal modulatio	n and de	modulation is called a		
	Α	demodulator	C	repeater	F.	codec		
	B	modulator	D-	modem				
(x)	The	fastest, most powerfu	it, and n	iost expensive category	of comp	idets is the		
		Laptop	C	Minicomputer	+	Microcomputer		
	$\mathbf{B}$	Mainframe	D	Supercomputer				

Page 2 of 6

At the meanings in List A with their corresponding terminologies in List B by writing the ser of the correct option beside the nem number in your mower booklet.

	List A		List B
(1)	The process of converting data signal by superimposing to an analogue carrier for transmission via a telephone line	A R	Attenuation  Bandwidth
001	the process used in the receivers to recover the original signal coming from the sender end in modulation form	(°	Baseband transmission Broadband
cany	The technique of combining several analog signal messages or digital message streams into one signal for transmission as a single message.	E.	Demultiplexing Full duplex transmission
10.1	The maximum amount of data that a transmission medium can carry at any given time	G	Half duplex transmission
(v)	A digital signal that is generated and applied to the transmission medium directly without modulation	H	Multiplexing Signal demodulation
(vii	Transmission of data over an analog medium by using frequency differences to represent different data signals	j K	Signal interference Signal modulation
(vij)	Data communication that occurs only in one direction of the communication medium	Ĺ	Signal retransmission
vint	Data communication that allows a two way flow of data but one direction at a time.	M N	Simplex transmission  Data transmission
tixi	Data communication that allows simultaneous transmission of data in both direction of the communication medium.	O P	Duplex transmission  Network transmission
(1)	The weakening of data signal over a communication medium with increasing distance		

Page 3 of 6

- to the following items, write (T) for True statement and (F) for False statement
  - Action query is the most common type of query used for searching and analyzing data in one or more tables.
  - A spreadsheet has three main components namely, worksheets, databases and colls
  - (iii) A peer to peer network does not depend on a central server
  - (iv) Online storage means that stored data is directly accessible for processing.
  - Auto content wizard include animations, transitions and builds
  - (vi) Optical Character Recognition converts scanned image into text that can be edited
  - (vii) Ink jet printer is an example of an impact printer
  - (vni) Data is entered into the computer by using keying devices only
  - (ix) The operating system allocates RAM among programs that are running
  - (x) Network users can open shared files but they cannot change those files.

## SECTION B (50 Marks)

# Answer all questions in this section.

Briefly explain three (3) slide viewing options in PowerPoint (6) marks) (h)

Mention four ways which can be used in creating a new presentation in PowerPoint

The figure below shows data entered into a spreadsheet application

和地域人	J.B.	TC.	ED4
型型 Month	Feb	Mar	Apr
25 Oranges	656	766	500
Apples	322	7.70	123
改量 Bananas	- 57	55	154
<b>运</b> Pincapples	7.5	566	860
Other fruits		233	621
□73 Total	1134	2390	2258

What is the cell reference of the active cell\* (a)

(0.5 mark)

Which cell will become the active cell if the Home button on the key board is pressed? (11)

(I mark)

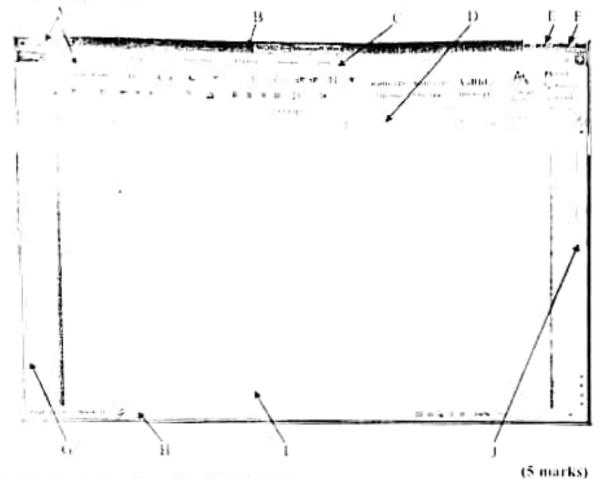
(2 marks)

Write the formula used in cell B7 to calculate the total for February (c)

12 market

Page 4 of 6

(a) The snapshot below shows the leatures of electronic word processor. Label all features indicated by arrows.



(b) Explain the functions of C, A, B and H features (4 marks)

- ta) I vplans why is there a concern on the disposal of Nickel-cadmium batteries? (2 marks)
  - (b) Describe five advantages of automation (c) (c)
- (1.5 mark) With are the three main purposes of desktop publishing software?
  - the first have been requested as an expert in DTP, to design a five (5) pages school insgrame. The magazine layout should display the school logo at the top of every page Laplant how you would do this.

    (6 marks)
- (1 mark)
  (a) United by two principal ways of organizing a database (4 marks)
  - (iii) Write down the criteria you would use to display employees "details from a payroll database who earn between 9000 and 18000.
     (1 mark)
  - (b) Outline three benefits that Computer networks provide to the users (3 marks)
  - to Identify four types of wireless media that are used to link networks (2 marks)

Page 5 of 6

## SECTION C (20 Marks)

## Answer two (2) questions from this section

- 10 Elaborate how dam recovery, data compression, back up and file defragmentation offiny programs functions (10 marks)
- 11. Why should a school/Institution have a website? Describe by giving four reasons (10 marks)
- 12 With examples, give a detailed elaboration of the classification of operating systems based on number of users and number of tasks. (10 marks)