

FOCUS A365

Another Manyam franchise . Com Evaluation Test

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Form Three | Term 1 | Computer Studies | 26-Mar-16 | Terminal

ADM#:..... NAME:..... CLASS:.....

Instructions: It's Strongly Recommended that you answer all the questions provided

Section A

1. State **four** peripheral devices that can be classified in the category of output devices (2mks)

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2. Discuss the following terms as used with **disk management**

a. Formatting (1mk)

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b. Compression (1mk)

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c. backup (1mk)

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d. partitioning (1mk)

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e. compression

(1mk)

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3. Draw symbols to illustrate the following cables

a. USB

(1mk)

b. SCSI

(1mk)

c. Firewire

(1mk)

4. Differentiate between **COM** port and **LPT** ports.

(3mks)

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5. What is an Internet Service Provider?

(1mk)

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6. Explain the following software terms:

(2mks)

(a) Portability

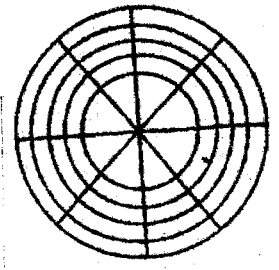
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(b) Modularity

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The diagram below shows a formatted plate surface of a storage disk

(2mks)



Shade and label:

- (a) One sector
- (b) One block

8.

(a) One of the functions of an operating system is job scheduling

(2mks)

Explain what is meant by job scheduling.

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(b) List and explain **three** types of user interfaces

(6mks)

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(e) Describe the following categories of software:

(2mks)

(i) firmware

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(ii) Proprietary software.

Section B

16. a) Convert the following **hexadecimal** number to its **decimal** equivalence 111_{16}

(3mks)

b) Perform the following binary arithmetic.

i. $11111_2 + 11111_2$

(2mks)

ii. $11010_2 - 1010_2$

(2mks)

c) Convert the following binary number 1101.01_2 to decimal.

(2mks)

(b) State **two** objectives of normalization.

(2mks)

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14. State any **four** advantages of using an electronic spreadsheet as compared to a traditional worksheet. (2mks)

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15. (a) Basic computer setup and cabling is a very important concept to be taught in a computer class. Give **two** reasons to support the above concept. (2mks)

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(b) State any **two** factors to be considered when selecting hard copy output devices. (2mks)

(2mks)

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(c) Name **four** types of database models

(2mks)

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17. (a) List **two** programs that can be used by Web Developers.

(2mks)

(b) Explain **three** methods of testing the program for errors.

(3mks)

(c) Name **two** of the third generation languages (3GLs).

(1mk)

(d) Distinguish between a compiler and interpreter.

(3mks)

18. Study the spreadsheet below and answer the questions that follow

	A	B	C	D
1	WESTERN COMPBOOK CENTER SALES			
2	BOOK TITLE	PRICE PER BOOK	BOOKS SOLD	
3	DBASE IV	400	145	
4	LOTUS FOR DUMMIES	460	15	
5	OFFICE WORD IN 3 DAYS	300	65	
6	LEARN C++ IN 3 DAYS	700	100	
7	TEACH YOURSELF PASCAL	700	200	
8	COMPUTER STUDIES	500	300	
9	THE CLEVER FOOL COMPUTER	300	10	
10				

d) Using twos complement (2c) subtracts 28_{10} from 17_{10} in 7 bit form.

(3mks)

e) Using one's complement (1c) work out the following in 8 bit form.

(3mks)

$31_{10} - 12_{10}$

i) Write down the formula that can be used to find the price of the most costly book. (1mks)

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ii) Write down the formula that can be used to determine the total sales for the book titled COMPUTER STUDIES. (1mk)

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iii) Write down the formula that can be used to determine the average price of the books. (1mks)

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iv) Write down the formula in cell D6 that can be used to find the new price per book. If they went up by a percentage written in cell B10 and the formula has to be entered only in cell D3 then copied to other cells. (1mk)

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v) Write down the output in D7 if B6 is 10%. (1mk)

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vi) State any four advantages of using an electronic spreadsheet as compared to a traditional worksheet. (4mks)

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19. (a) Describe three different ways a computer may store negative numbers. (6mks)

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(b) Give the acronym name for the following (3mks)

i. BCD

ii. ASCII

iii. EBCDIC

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(c) Define the term operating system (1mk)

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(d) Describe any **four** functions of the operating system (4mks)

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(e) Define the following terms as used in spreadsheet (3mks)

i. absolute referencing-

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ii. Value-

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iii. Worksheet-

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