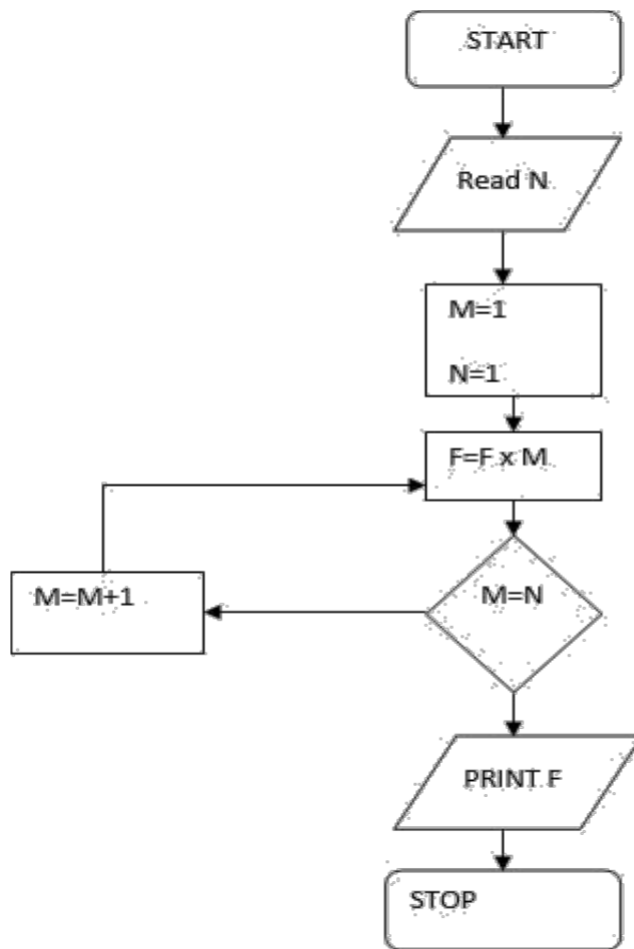# KCSE PREDICTION 2018

COMPUTER STUDIES PAPER 1 QUESTIONS

SECTION A (40 Marks)

Answer all the questions in this section

1. i) Differentiate between master file and transaction file. (1mk)

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    ii) Give two reasons why smaller computers like laptops tend to be more expensive than desktop computers. (2mks)

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2. . List two disadvantages of using traditional file management method. (3mks)

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3. . List three sources of graphics that can be used in Microsoft word. (3mks)

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4. Mention two things that are likely to cause eye strains. (2mks)

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5. State two reasons why magnetic tapes are not commonly used as computer data storage medium today. (2mks)

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6. State three objectives of normalisation. (3mks)

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7. . State two purposes of the recycle bin. (2mks)

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8. Give three ways in which operating systems are classified. (3mks)

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9. Name four data types used in spreadsheets. (2mks)

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10. . Outline three precautions one should take when assembling a computer. (3mks)

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a) What would the flowchart generate as output if the value of N at input was:

i. 0 (2 marks)

ii. 5 (2 marks)

b) Write a Pseudocode that does the same thing as the flowchart above. (7mks)

c) Modify the flowchart so as to reject an input below 0 and avoid the looping when the input is 0. (4mks)

17. a) Convert 7678 to hexadecimal equivalent. (2mks)

b) Perform the following conversions 7.12510 to binary. (3mks)

c) 20.216 to decimal. (3mks)

d) Use two's compliment to subtract 5 from 27. (3mks)

e) Convert FC116 to its binary equivalent. (4mks)

18. a) With the aid of a diagram explain star topology. (3mks)

b) List two advantages and two disadvantages of star topology (4mks)

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c) State four functions which are specific to networking operating system. (4mks)

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d) Why is fibre optic becoming the number one choice for local area networks? (4mks)

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19. a) What is virtual reality? (2mks)

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b) List three areas where virtual reality is used. (3mks)

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c) What is biometric analysis? (2mks)

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d) A recent breakthrough in the manufacturing industry is the development of a fuel manufacturing plant that can produce vehicles using robots.

Despite these advances some manufacturers prefer to use human labour.

Give two advantages and two disadvantages of fully automated manufacturing industry. (4mks)

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e) What is an expert system? (1mk)

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f) Explain the three components of an expert system. (3mks)

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20. (a) State three reasons why it is difficult to detect and prevent computer crimes. (3mks)
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(b) State three characteristics of a suitable password. (3mks)
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(c) What is a spyware? (2mks)
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(d) A school intends to set up an e-learning system. List three problems that are likely to be encountered. (3mks)
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(e) What is a search engine? (1mk)
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(f) Give two examples of search engine. (1mk)

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(g) Differentiate between internet and intranet. (2mks)
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