

DATE:

NAROK SOUTH SECONDARY SCHOOLS JOINT EXAMINATION
COMPUTER STUDIES
Kenya Certificate of Secondary Education (K.C.S.E)
PAPER 1

- i. Write your name and index number in the spaces provided above.
- ii) Sign and write the date of examination in the spaced provided.
- iii) Answer all questions in section A.
- iv) Answer 16 and any other three questions from section B.
- v) All answers should be written on the question paper in the spaces provided below each question.

SECTION	QUESTION	SCORE
A	1 - 15	
B	16	
	17	
	18	
	20	

451/1 Computer Studies

- (c) List **three** types of documentation used during program documentation. (3 marks)
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17. (a) List **two** devices used in wireless communication. (2 marks)
- (b) State and explain any three communication devices. (6 marks)
- (c) State **four** functions of network operating systems. (4 marks)
- (d) With the aid of a diagram, describe the mesh topology. (3 marks)
18. (a) List and explain **three** changeover strategies used in system development. (6 marks)
- (b) State the stage of system development life cycle in which each of the activities below take place: (3 marks)
- (c) Differentiate between share level security and user level security as used in network security. (2 marks)
- (d) List **three** examples of protocols found at the application layer of OSI model. (3 marks)
19. (a) Differentiate between the following pairs of terms:
- (i) Videotex and teletext; (2 marks)
- (ii) Computer aided design and computer aided manufacturing. (2 marks)
- (b) What is virtual reality? (2 marks)
- (c) List **four** interactive sensory equipment used in virtual reality. (4 marks)
- (d) What is telecommuting? (2 marks)
- (e) State three advantages of telecommuting. (3 marks)
20. (a) What is an expert system? (2 marks)
- (b) State and describe **three** components of an expert system. (6 marks)
- (c) Using two's complement, subtract 13₁₀ from 10₁₀ (4 marks)
- (d) Convert the decimal number 0.64 to 6 bit binary notation. (3 marks)

- (iii) Multiplexing.
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6. (a) List **three** major elements of networking. (1 ½ marks)
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- (b) State **three** advantages of fiber optic cables. (1 ½ marks)
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7. Differentiate between the following terms: (2 marks)
- (i) Syntax and logical errors
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- (ii) Interpreter and compiler.
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8. (a) List **three** error detection methods. (1 ½ marks)
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- (b) State **three** theories of system development. (1 ½ marks)
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9. List **six** layout components available in a PageMaker application window. (3 marks)
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10. Differentiate between tracking and kerning as used in DTP. (2 marks)

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11. List **four** examples of action queries. (2 marks)

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12. Highlight **three** responsibilities of a computer programmer. (3 marks)

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13. State **two** major uses of optical disks. (2 marks)

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14. What is an interrupt? (1 mark)

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15. Define the term multimedia. (1 mark)

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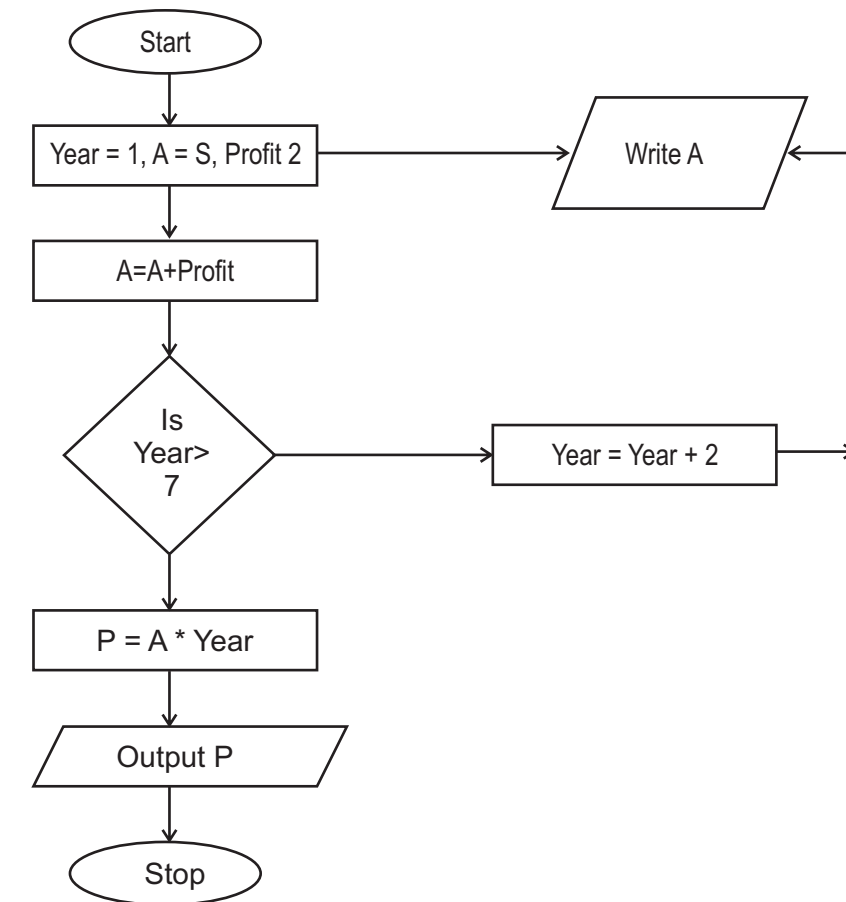
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SECTION B:

Answer question 16 and any other three questions in this section.

16. Study the flowchart below and answer the questions that follow.



(a) List the various outputs from the flowchart above. Show your working. (6 marks)

(b) Write a pseudo code for the flowchart. (6 marks)

