

Computer Science
016

05 Nov.2013 8.30am - 11.30 am

REPUBLIC OF RWANDA



RWANDA EDUCATION BOARD

ADVANCED LEVEL NATIONAL EXAMINATIONS 2013

SUBJECT: COMPUTER SCIENCE

COMBINATIONS : MATHS-COMPUTER SCIENCE-ECONOMICS: MCE
MATHS-PHYSICS-COMPUTER SCIENCE: MPC

DURATION : 3 HOURS

INSTRUCTIONS :

1. Do not open this paper until you are told to do so.
2. This paper consists of **three** sections: **A, B** and **C**.
Section A: This section is compulsory. (55 marks)
Section B: Attempt **three** questions. (30 marks)
Section C: Attempt **any one** question. (15 marks)
3. Use only blue pen.



Section B: Attempt any three questions from this section. (30 marks)

15) Define the following:

a) Branching Statements. (2,5marks)

b) Looping Statements (2,5marks)

c) **if** statement. *select statements* (2,5marks)

d) **while** statement. *iteration stat* (2,5marks)

16) Write a pseudocode of an algorithm that will read the two sides of a rectangle and calculate its area. (10marks)

17) Convert the binary number 1111011 to decimal number. (10marks)

18. How does a main () function in C++ differ from main () in C? (10marks)

19. What is ADO? What are its objects? (10marks)

Section C: Attempt any one question from this section (15 marks)

20. Write a C program to print fibonacci series (0 1 1 2 3 5 8 13).

21. Write an algorithm to find the sum and average of three given numbers.