

451/2
COMPUTER STUDIES
Paper 2
(PRACTICAL)
Oct. /Nov. 2010
2½ hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL
Kenya Certificate of Secondary Education
COMPUTER STUDIES
Paper 2
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Instructions to Candidates

- (a) Indicate your **name** and **index number** at the top right hand corner of each printout.
- (b) Write your **name** and **index number** on the CD/Removable storage medium provided.
- (c) Write the **name** and **version** of the software used for each question attempted in the answer sheet.
- (d) Answer **all** the questions.
- (e) All questions carry equal marks.
- (f) Passwords **should not be used** while saving in the CD/Removable storage medium provided.
- (g) All answers **must** be saved in your CD/Removable medium storage provided.
- (h) Make a printout of the answers on the answer sheets provided.
- (i) Arrange your printouts and tie/staple them together.
- (j) Hand in all the **printouts** and the **CD/Removable storage medium** used.
- (k) **This paper consists of 4 printed pages.**
- (l) **Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.**

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Paper 2

0114

4103

Turn over

- 1 Mr Kiprop Onyango owns houses for rent. Table 1 below is a record of his tenants' rent payments.

Tenant ID	Tenant Name	House Number	Month	Amount (Ksh)
2019	Akinyi	A1	January	3,000
2022	Maloi	A2	January	4,000
2038	Nduta	B1	January	4,500
2059	Rop	B2	January	4,500
2070	Mutua	C1	January	4,000
2090	Akinyi	A1	February	3,000
3030	Maloi	A2	February	4,000
3040	Nduta	B1	February	4,500
3025	Mutua	C1	February	4,000
3050	Kagu	C2	February	3,500
3055	Maloi	A2	March	4,000
3090	Kagu	C2	March	3,500

Table 1

- (a) Create a database file that can be used to store the above data. Name the file 'Rent'. (2 marks)
- (b) Create two tables, one to store tenant details and another to store tenant rent payments. Name the tables 'Tenants' and 'Payments' respectively. (9 marks)
- (c) Create a relationship between the two tables. (3 marks)
- (d) Design a form to be used to enter data into each of the two tables. (7 marks)
- (e) Enter the information given into the two tables. (9 marks)
- (f) Create a report showing the amount Mr. Onyango received from each tenant, the total for each month and the total amount he received over the three months. The report should be titled 'Rent Income'. Save the report as 'Income'. (8 marks)
- (g) (i) Create a query named 'Statement' to extract Maloi's records of rent payment. (4 marks)

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- (ii) Create a report named 'Tenant Statement' showing Maloi's rent payment history. The report should be titled 'Tenant Statement'. (4 marks)
- (h) Print the two tables and the two reports. (4 marks)

2 Table 2 below shows the admission numbers and names of five students and their scores in six subjects in a mock examination.

ADM No.	NAME	English	Mathematics	Biology	Chemistry	Physics	History
3030	Victor Onyango	77	68	75	35	58	80
3032	Zablon Mutiso	44	77	80	42	60	73
3037	Pauline Chepleting	68	59	91	39	59	75
3040	Naomi Nafula	55	80	89	48	38	66
3044	Jamleck Kiongo	69	82	83	43	44	70

Table 2

- (a) Enter the above data into a worksheet and save the file as 'Mock results 1'. (10 marks)
- (b) Using a formula, calculate the:
- (i) total score for each student;
- (ii) mean score for each student. (4 marks)
- (c) Use a function to obtain the mean for each subject. (3 marks)
- (d) A student is awarded a 'pass' if their mean score is 60% or more. Use a function to determine the number of students who are awarded 'pass'. (2 marks)
- (e) Format the worksheet as follows:
- Borders: single line.
 - Subject heading: Align 90°
 - Merge the cells above all the subject headings so that the text 'SUBJECT' is above them.
 - Mean score: one decimal place. (4 marks)

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- (f) Using a function, determine the lowest and the highest score for each subject. (4 marks)
- (g) Copy the contents of the worksheet to a blank worksheet and insert a blank column after every subject.
Label the new columns as EngG, MathG, BioG, ChemG, PhyG and HistG respectively. On the inserted columns, compute the grades using the IF function based on the following criteria. (13 marks)
- | Mean Score | Grade |
|-----------------------------|-------|
| Score ≥ 75 | A |
| $60 \leq \text{score} < 75$ | B |
| $50 \leq \text{score} < 60$ | C |
| $45 \leq \text{score} < 50$ | D |
| Score < 45 | E |
- (h) Hide all the columns containing score values and save the worksheet as 'Mock results 2'. (1 mark)
- (i) Create a bar chart to compare students' mean scores and label the chart accordingly. (6 marks)
- (j) Print the two worksheets and the bar chart. (3 marks)

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