

**COMPUTERS FOR SCHOOLS KENYA (CFSK)
EXPERT USER PROFICIENCY COURSE
AUGUST-SEPTEMBER 2005 EXAMINATIONS
EUP003: SPREADSHEET: MS EXCEL**

SECTION A (25 MARKS)

INSTRUCTIONS

Answer all the questions in section A

- 1) Look at the spreadsheet picture below. It shows the CAT (continuous assessment test) marks scored by seven students. Each of the CAT is marked out of 50 marks.

	A	B	C	D	E	F	G	H	I	J
1	Name	File No	Class	CAT 1	CAT 2	TOTAL	AVG	%	COMMENT	BEST CAT
2	Mr Happy	12345	2G	45	46					
3	Mr Sad	3546	2G	30	26					
4	Mr Clever	7696	2G	42	38					
5	Mr Depressed	8954	2G	6	4					
6	Mr Perfect	6589	2G	50	50					
7	Mr Intelligent	6978	2G	48	47.5					
8	Mr Bad	12546	2G	20	13					
9										
10										
11										
12										

- Give the formula you would use in cell F4 to display the total score for Mr. Clever
(3marks)
- Give the formula you would use in cell G8 to display the average score for Mr. Bad
(3marks)
- Indicate the formula you would use in cell H6 to display the percentage for Mr. Perfect
(4marks)
- If a student scored more than 80%, he passed the test; otherwise he failed. Show the formula you would enter in cell I2 to display "Pass" or "Fail" as appropriate for Mr. Happy
(5marks)
- Indicate the formula you would use in cell J2 to display "CAT1" or "CAT2", depending on whether Mr. Happy scored higher in the first CAT or the second CAT
(5marks)
- Give two examples of spreadsheet software.
(2marks)
- Explain the procedure you would apply to sort the students' performance from highest to lowest.
(3marks)

COMPUTERS FOR SCHOOLS KENYA (CFSK)
EXPERT USER PROFICIENCY COURSE
AUGUST-SEPTEMBER 2005 EXAMINATIONS
EUP003: SPREADSHEET: MS EXCEL

SECTION B (75 MARKS)

INSTRUCTIONS

1. Answer **any THREE** questions in this section
2. Marks will be awarded for both **content** and **clarity** of expression
3. Time allowed for section B is **2 hours and 30 minutes**
4. All work **MUST** be saved in the diskette provided.

QUESTION ONE (25 MARKS)

- 1) Andrew, Jane, David and Zablon had tea, sausages and bananas for breakfast. They took one sausage, two sausages, three sausages and one sausage respectively. In addition, they each took a cup of tea and two bananas. Tea, sausages and bananas cost Ksh. 10, 15, and 5 respectively.

(a) Construct a worksheet showing the above information. Save it as **exam1.(10 marks)**

(b) State the expression you would use:

- | | | |
|-------|---|------------------|
| (i) | to obtain the total expenditure by David. | (5 marks) |
| (ii) | to obtain the total number of sausages taken. | (3 marks) |
| (iii) | to indicate the person who had the least expenditure. | (3 marks) |

c) Explain the procedure for showing only the persons who bought ≥ 2 sausages.
(4 marks)

QUESTION TWO (25 MARKS)

(a) Prepare the following spreadsheet as is displayed. Place each item in the appropriate cell (7 marks)

	A	B	C	D	E	F	G	H	I	K	K	L	M	N	P	
1	KNEC KCSE RESULT YEAR 2015															
2	Grade Table						NB:									
3	Grade Name		A	B	C	Award grade A for Average point of 3 only										
4	Grade Point		3	2	1	Award grade B for average point from 2 to 2.9										
5	Award grade C for average point from 1 to 1.9															
6	SCHOOLS PERFORMANCE															
7	School Name		Gokunji Secondary School													
8	Subject	Cand	Grades		Average											
9			A	B	C	Grade	Points	Rank								
10	Maths		5	2	1	2										
11	History		5	1	1	3										
12	Geog		5	1	2	2										
13	School Average															
14																
15																
16	School Name		Kazi Boys Centre													
17	Subject	Cand	Grades		Average											
18			A	B	C	Grade	points	Rank								
19	Maths		5	5	0	0										
20	History		5	2	2	1										
21	Geog		5	1	3	1										
22	School Average															
23																
24	School Name		Nairobi Moi Boys School												National Subject Perfomance	
25	Subject	Cand	Grades		Average					Subject	Grade	Avg				
26			A	B	C	Grade	Points	Rank	Name	A	B	C	Grade	Rank		
27	Maths		5	5	0	0				Maths						
28	History		5	2	2	1				Geog						
29	Geog		5	1	2	2				Hist						
30	School Average															
31																
32	School Name		Mudomoni Sec School Pumwani													
33	Subject	Cand	Grades		Average											
34			A	B	C	Grade	Points	Rank								
35	Maths		5	0	5	0										
36	History		5	0	4	1										
37	Geog		5	1	2	2										
38	School Average															
39																
40																
41	National School ranking		Average		Points		Rank									
42	School Name															
43	Nairobi Moi Girls															
44	Kazi Boys Centre															
45	Gokunji Sec Sch.															
46	Mudomoni Sec Sch.															
47																

(b) Use formulae to work out the Average Grades, the Points and then Rank each school's subject performance. Save this spreadsheet as exam2. (18 marks)

QUESTION THREE (25 MARKS)

The following are the KCSE results for a certain school in Eldoret.

Kibondeni High School Nairobi													
NAME	Eng	Swa	Mat	Bio	Phy	Chem	Geog	Draw	Comp	Comm	Ave. point mark	Overall grade	Rank
NJIRU	B+	B	A	B-	A	B	B-	A-					
LEE MANWA	A-	B+	A	A-	A	A	A-			A			
KALULWE	B+	B	A	B+	A	B+	B	A					
LEONARD	B+	A	A	A-	A	A-	B+		A				
FRED	A	A	A	B	A	A	A-		B+				
NJOGU	B+	B+	A	A-	A	A	B+		A				
MUANGE	B+	B	A	A	A	A	A-			B-			
KIPRONO	A	A-	A	A	A	A	A			A			
WEKESA	B	B	A	B+	A	A	B-			A			
NDIRANGU	B	A-	A	B	A	B	B			A			
OPIYO	B+	C	A	A-	A	A	A-			A			
MAINA	B+	A-	A	B+	A	A-	B+		A				
KIVUTHA	B	B	A-	B+	A-	A-	B+		A				
KARURI	A	B+	A	A	A	A	A-		A				
AMINGA	B	A	A	A-	A	A-	A-			C+			
RAGIRA	B+	C+	A	B+	A	B+	A		B-				
MUGISHA	A-	A-	A-	B+	B+	B-	B+		A				
KIKUVI	B+	A	A	A	A	B	A-		A				
MWANIA	B	A-	A	B+	A-	B+	A-	A-					
WAMICWE	B+	B	A	A-	A	B+	A-	A					
MBUGUA	B+	B-	A	B	A-	A	B-	A					
OOGA	B-	A-	A-	B-	B+	C+	B	C					
HENRY	A-	A-	A	A	A	A	A		D+				
AHMAD	A	B+	A	B+	A	A	A		A				
JOHN	B+	C-	A-	B+	A	A-	A			B+			

- a. Enter the data using the given values below in Excel and save your work as **ELDEXCEL**.
(14 Marks)

Grade	A	A-	B+	B	B-	C+	C	C-	D+
Value	12	11	10	9	8	7	6	5	4

- b. Perform the following calculations and indicate the formulas used in the answer booklets provided.

- i) Get the average point mark in the table above given that, (3 Marks)
Average Point Mark = Average of (sum of values of all subjects)
- ii. Determine the students overall grade (4 marks)
- iii. Determine each student's rank using the Ave. Point Mark. (4 Marks)

QUESTION FOUR (25 MARKS)

A filling station sells super, regular, Diesel, Kerosene, engine oil and gearbox oil. In the month of January, the total sale in thousands of liters was 107, 363, 605, 65, 68, and 64 respectively. Given that the expected % growth rate in sales per month is 11.9%, 14.0%, 15.5%, 12.3%, 7.9% and 6.3% respectively.

- a) Enter the details into a worksheet and forecast the sales for the first half of the year.
Save it as **exam4** **(15 marks)**

- b) Using a formula calculate the average and total sales for each month **(5 marks)**

- c) Using a formula calculate the average and total sales for each product for the first half of the year. **(5 marks)**