

CICT PART I SECTION 1

COMPUTER APPLICATIONS - PRACTICAL

MONDAY: 27 November 2017.

Time Allowed: 3 hours.

Answer ALL questions. Marks allocated to each question are shown at the end of the question.

Ensure that you are provided with a computer, a flash disk and printing materials.

Additional instructions:

1. Save all your work in the flash disk provided and in a folder bearing your registration number.
2. Work on each question should be saved in the subfolder contained in the folder created in number 1 above. The name of the subfolder should correspond to the question number.
3. Your registration number MUST appear as a header on every printout containing your answers.
4. You must indicate the number of the question answered on the header created in number 3 above.

Note: The information in numbers 1-4 above must be computer generated.

At the end of the examination duration, you should hand in to the invigilator(s):

- (a) The flash disk containing your work.
- (b) All printed work.
- (c) All unused printing paper(s).

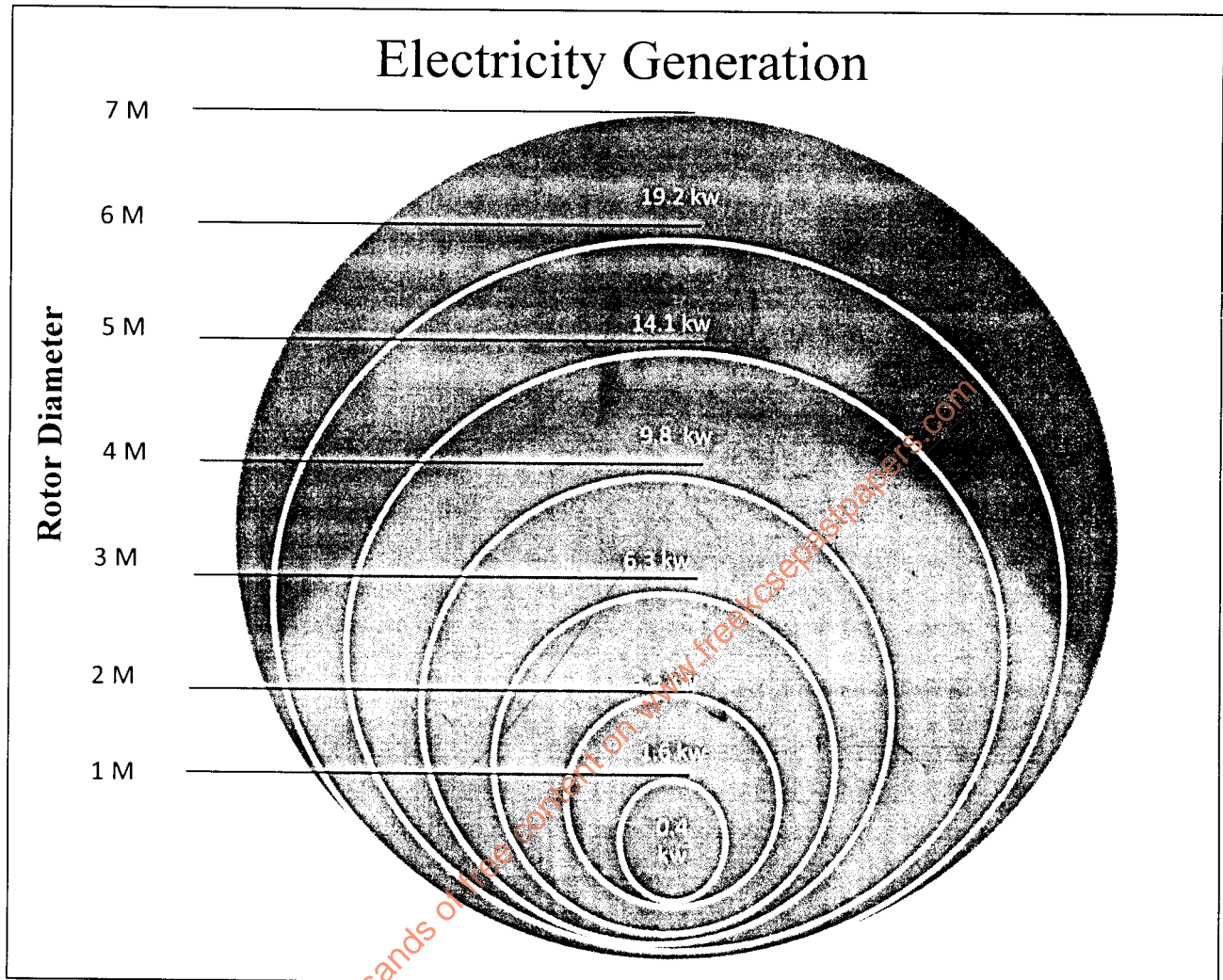
QUESTION ONE

- (a) The slide below shows a windmill station.



**Required:**

- (i) Using a presentation software, create a presentation named "windmill" with the slide as shown above. (4 marks)
- (ii) Apply appropriate animation to show the windmills rotating in a clockwise direction. (2 marks)
- (iii) Add a slide as shown below in "windmill" presentation.



- (iv) Set the presentation to loop continuously until "Esc". (2 marks)
- (v) On the second slide, add the speaker notes shown below:  
"Graph of theoretical power production for small wind turbines". (2 marks)

Save "windmill" presentation and print it on one A4 sized paper.

- (b) Create a word processor document and name it "Question One". In the word processor, type solutions to the questions below:
  - (i) Highlight two reasons for preparing a presentation with slide transition timings enabled. (2 marks)
  - (ii) Explain the function of the status bar of a presentation program. (2 marks)
  - (iii) Distinguish between "autofit" and "green circle" features as used in presentation applications. (2 marks)

Save Question One document and print.

**(Total: 20 marks)**

**QUESTION TWO**

(a) Create a workbook named "private" with a worksheet named "cost" containing the data below:

	A	B	C	D	E	F	G
1	MEAT TYPE	NO. OF KGS	PRICE/ KG	TOTAL COST	VAT	TOTAL COST + VAT	DISCOUNT ALLOWED
2	BLADE	21.50	280				
3	FILLET	115.39	650				
4	BRISKET	95.85	750				
5	LIVER	170	850				

(4 marks)

(b) Using cost worksheet created in (a) above, calculate:

- (i) The total cost which is (No. of Kg. \* Price/Kg.) (1 mark)
- (ii) VAT if value added tax (VAT) is 15% of the total cost. (1 mark)
- (iii) Value of cell F2 which is (Total cost + VAT). (1 mark)
- (iv) Discount allowed which is equal to 45% of (Total cost + VAT). (1 mark)

(c) Below the cost worksheet, enter the following headings and compute the corresponding values:

- (i) Average kilograms of meat. (2 marks)
- (ii) Highest discount allowed. (2 marks)
- (iii) Lowest VAT. (2 marks)

(d) On sheet 2 of "private" workbook, explain the following spreadsheet concepts:

- (i) Cell address. (2 marks)
- (ii) Fill series. (2 marks)
- (iii) Grid. (2 marks)

Save "private" workbook and print "cost" and "sheet 2" worksheets.

(Total: 20 marks)

**QUESTION THREE**

XYZ is a training college that offers three courses to students. A student sits for three types of examinations every semester. Each examination is marked out of 100%.

The following table shows sample data collected from the database:

**COURSES**

COURSE CODE	COURSE DESCRIPTION	TUITION FEES
D-ENG	Diploma in Engineering	Sh.25,000
D-CSC	Diploma in Computer Science	Sh.35,000
D-NUR	Diploma in Nursing	Sh.15,000

**STUDENTS' ENROLLMENT**

STUDENT ID	StNAME	SEX	DATE ENROLLED	COURSE CODE
ENG-001	MIKE OKOTH	M	01/11/2017	D-ENG
CSC-002	MUTHEU KIOKO	F	02/11/2017	D-CSC
NUR-003	ABIUD MWANGI	M	03/11/2017	D-NUR
ENG-004	JANE NJOROGE	F	01/11/2017	D-ENG

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(d) On sheet 2 of "private" workbook, explain the following spreadsheet concepts:

- (i) Cell address. (2 marks)
- (ii) Fill series. (2 marks)
- (iii) Grid. (2 marks)

Save "private" workbook and print "cost" and "sheet 2" worksheets.

(Total: 20 marks)

**QUESTION THREE**

XYZ is a training college that offers three courses to students. A student sits for three types of examinations every semester. Each examination is marked out of 100%.

The following table shows sample data collected from the database:

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ENG-001	MIKE OKOTH	M	01/11/2017	D-ENG
CSC-002	MUTHEU KIOKO	F	02/11/2017	D-CSC
NUR-003	ABIUD MWANGI	M	03/11/2017	D-NUR
ENG-004	JANE NJOROGE	F	01/11/2017	D-ENG

## EXAMINATIONS OFFERED

EXAM CODE	EXAM NAME
01	First Semester
02	Second Semester
03	Third Semester

## EXAM PERFORMANCE

EXAM RECORD NO	STUDENT ID	EXAM CODE	SEMESTER	SCORE
1	ENG-001	01	2	75
2	CSC-002	02	2	80
3	NUR-003	03	2	65
4	ENG-004	02	2	60
5	CSC-002	03	2	78
6	NUR-003	01	2	72

### Note:

A course can be enrolled by many students and a student can sit many examinations. One examination can also be done by many students as shown in the Exam Performance table.

### Required:

- (a) Create a database file named XYZ College. (1 mark)
- (b) Create a table structure for each of the four tables, setting an appropriate field as the primary key and choosing the appropriate data type for each field. (4 marks)
- (c) Relate the four tables appropriately. (2 marks)
- (d) Create a data entry form for each table. (4 marks)
- (e) Query the table to show StName, Course Description, Exam Name, Exam Record No and Score for all students who scored greater than 70%.  
Save the Query as "HighScore Query". (1 mark)
- (f) Create a report called "Tuition summary" displaying the following details: (2 marks)
- Student Id
  - StName
  - Course Description
  - Tuition Fees
  - Total fees collected on the report footer.
- Save "XYZ College" and print "Tuition summary" report.
- (g) On a word processor named "Question Three", describe the following concepts as used in databases:
- (i) Hot spot. (2 marks)
  - (ii) Inner join. (2 marks)
  - (iii) Key. (2 marks)

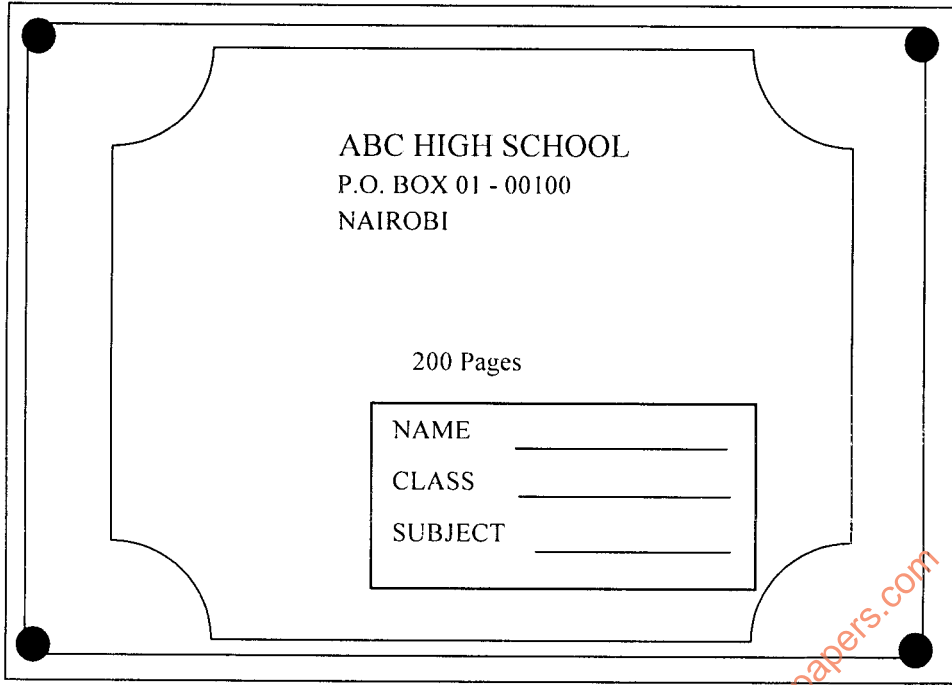
Save and print "Question Three" document.

**(Total: 20 marks)**

**QUESTION FOUR**

The diagrams below represent the design of a book cover:

**FRONT PAGE**



**REAR PAGE**

	1	2	3	4	5	6	7	8	9
1	1	2	3	4	5	6	7	8	9
2	2	4	6	8	10	12	14	16	18
3	3	6	9	12	15	18	21	24	27
4	4	8	12	16	20	24	28	32	36
5	5	10	15	20	25	30	35	40	45
6	6	12	18	24	30	36	42	48	54
7	7	14	21	28	35	42	49	56	63
8	8	16	24	32	40	48	56	64	72
9	9	18	27	36	45	54	63	72	81

**Formulas**

$A = \frac{1}{2}bh$

$A = L * w$

$A = \pi r^2$

**Required:**

- (a) Using a desktop publishing program, design the above book cover to fit in an A4 paper size and allow a space of 1 centimetre at the middle.

Note: The inner parts of the cover should be blank.

(14 marks)

Save your work as “cover” and print the front page and rear page.

- (b) On a word processor document named “Question Four” explain the following terms as used in desktop publishing.
- (i) Frame. (2 marks)
  - (ii) Template. (2 marks)
  - (iii) Handles. (2 marks)

Save and print “Question Four” publication.

**(Total: 20 marks)**

**QUESTION FIVE**

(a) Create a word processor document named "Question Five"

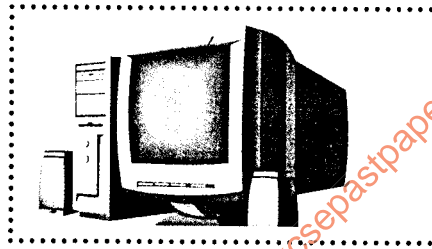
Use Question Five document to create the document as shown below:

# Amazon Distributors

## Modern Day's Electronic

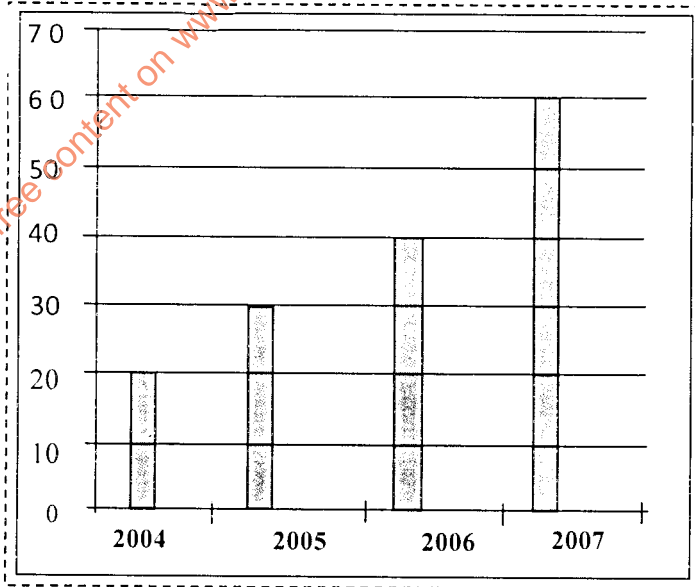
ITEM NAME	PRICE (SH.)
Panasonic Radio	20000
LG Tv	10000
Sonny Dvd player	8000
Gameboy	2000
Flashdisk	5000
External Harddisk	3000
Flashmemory	1500

On Sale – 50,000



**Sales Bar Chart**

Year	Total sales
2004	20Million
2005	30Million
2006	40Million
2007	60Million



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## **B e s t O n l i n e R e t a i l e r s**

Most online retailers have a wide selection of products and attractive prices, and you don't have to put up with crowded aisles and long checkout lines, as you might at a walk-in store. Four online retailers earned favourable marks across the board for the third time in the past four years: B&H, Crutchfield, Amazon.com (which accounted for four out of 10 online purchases made by the readers surveyed) and Newegg. B&H was the only online to get a top score on all factors, including service, selection, and price. The Apple, Costco, and Sam's Clubs websites were all near the top of the Ratings, but Apple got a below-average rating for price, and Costco and Sam's were judged below average for product selection.

(14 marks)

On page two of Question five document, key in solutions to questions (b) and (c) below:

(b) State a function of “thesaurus” as used in word processors. (2 marks)

(c) Explain the following word processing concepts:

(i) Hard Return. (2 marks)

(ii) Trace. (2 marks)

Save and print Question five document.

**(Total: 20 marks)**

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