i.	(a)	Explain four uses of management accounting information.				
	(b)		ollowing income statement vili Ltd.	vas prepare	d by the manageme	ent accountant of
				Ksh.	Ksh.	
		Sales	s revenue		720,000	
			ct materials	80,000	ŕ	
			ct labour	60,000		
		Dire	ct expenses	<u>10,000</u> 150,000		
		Varia	able Production Overheads	90,000	240,000	
			tribution	, , , , , , , , , , , , , , , , , , , ,	480,000	
			d production overheads		<u>270,000</u>	
			l Profit		<u>210,000</u>	•
		Total Calcu		the period v	was 1,500.	
		(i) (ii)	contribution per unit; profit per unit;			
		(iii)	break-even sales;			
		(iv)	margin of safety in shilling	gs.		(12 marks)
				<u>. </u>		
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- 2. (a) Wachuzi Ltd based in industrial area offers transport services within Nairobi town. The company has 15 lorries. Each lorry makes between 2000 to 4000 round-trips per year. Records indicate that a lorry that has made 2000 round-trips incurs an average operating costs of Ksh. 9,000 per round-trip. A lorry that has made 4,000 round-trips incurs an average operating cost of Ksh. 8,000 per round-trip.
 - (i) Using the high-low method, determine the cost estimation function.
 - (ii) Estimate the operating cost for a lorry that makes 6,500 round trips.

(8 marks)

(b) Bida Ltd is considering three projects; A, B and C. Information for each project is as follows.

Project A.

Has an initial cash outlay of Ksh. 10 million. The three possible outcomes with their probabilities and expected monetary returns are:

Outcome	Probability	Expected Monetary Returns
Good	0.45	Ksh. 50 million
Medium	0.30	Ksh. 65 million
Poor	0.25	Ksh. 20 million

Project B.

Has an initial cash outlay of Ksh. 15 million with the following outcomes:

Outcome	Probability	Expected Monetary Returns
Good	0.45	Ksh. 70 million
Medium	0.30	Ksh. 65 million
Poor	0.25	Ksh. 30 million

Project C.

Has an initial cash outlay of Ksh. 55 million and a sure expected monetary return of Ksh. 100 million.

(i)	Draw a decision	tree using the a	bove information.

4.6.65								
(ii)	Advica tha	management	of the	company	which	projet to	a inv	ect in
1117	Wayne me	шанаצының	OI LITE	COMPANY	WILL	project	O HIV	Cot III .

					(12 marks)	
					-	

3. (a) Banda Ltd manufactures two types of products; A and B. The budgeted sales for the year 2010 were as follows:

Product	Quantity	Price per Unit (Ksh)
A	5,000	200
В	8,000	300

The balances at the beginning and end of the year were given as follows:

Product A		January 2010 (units) 300	December 2010 (units) 900	
В		500	1,200	
Prepare:	(i) (ii)	Sales budget; Production budget.		(8 marks)

(b) Gama Ltd produces and sells four products; A, B, C and D. The relevant information is as follows:

Product/per unit	A	В	C	D
Selling price (Ksh)	30	48	25	75
Material cost (Ksh)	12	15	9	24
Labour cost (Ksh)	7	13	6	20
Overheads (Ksh)	2	5	4	7
Demand in units	6,000	6,000	6,000	6,000

All the products use the same material which is bought at Ksh. 3 per Kg. There is 100,000 Kg of the material available.

- (i) Calculate the contribution per unit for each product.
- (ii) Calculate the contribution per Kg of materials used for each product.
- (iii) Advise the management on the sales mix to maximize contribution for the company. (12 marks)

- 4. (a) Explain **four** techniques that are used by employers to evaluate the performance of their employees. (8 marks)
 - (b) Balut enterprise is planning to invest Ksh 1,000,000 in either project A or B. The prospective operating cash inflows of the projects are as follows:

Year	Annual cash inflow (Ksh. '000')				
	Project A	Project B			
1	100,000	500,000			
2	300,000	400,000			
3	600,000	300,00			
4	400,000	80,000			
5	500,000	80,000			

The required rate of return is 6% compounded annually.

- (i) Determine the Net Present Value (NPV) for each project.
- (ii) Determine the Discounted Payback Period for the two projects.
- (iii) Advise the management on the project to invest in. (12 marks)

- 5. (a) Explain **four** advantages the management accountant would gain from the use of management information system (computers). (8 marks)
 - (b) The following information was extracted from the books of XY Ltd for the year ended 31 December 2010.

REVENUE							
PRODUCT S	SELLING	UNITS	SALES VOLUME				
	PRICE		(Ksh)				
	(Ksh)		· · •				
Α	269	100,000	26,900,000				
В	134	150,000	<u>20,100,000</u>				
D			<u>47,000,000</u>				
OPE	RATING COST E	BUDGET (KSH)					
DEPARTMENT	VARIABLE	FIXED COSTS	TOTAL COST				
	COST						
	(Ksh)	(Ksh)	(Ksh)				
Production	-	12,000,000	12,000,000				
•	10,562,500	2,950,00	13,512,500				
Marketing Selling and distribution	<u>5,687,500</u>	1,300,000	<u>6,987,500</u>				
Soming and distribution	<u>16,250,00</u>	<u>16,250,000</u>	<u>32,500,000</u>				

The cost of goods sold amounted to Ksh. 7,500,000.

Prepare the budgeted income statement for the year ended 31 December 2010.

(12 marks)

- 6. (a) Explain four assumption of the Cost-Volume-Profit (C-V-P) analysis. (8 marks)
 - (b) Utumishi Electricals Ltd has 4 skilled electricians who are assigned tasks to meet the customers requirements. In the month of August 2011, five customers from different estates of Nairobi requisitioned Utumishi Electricals for service. The costs, in thousand shillings, to be incurred to assign each electrician to the different customers is given in the table below:

CUSTOMERS								
ELECTRICIANS	ALI	BEN	CARO	GRACE	FAITH			
ELI	6	18	20	12	13			
EDU	12	8	12	20	16			
EMA	16	19	15	11	7			
ELKANA	13	14	10	25	22			

Assign the electricians to the customers so as to minimize the total cost incurred.

(12 marks)

7. (a) Supasara Supermarket operates in one of the Nairobi estates. It has one cashier.

The cashier serves 10 customers in 15 minutes. Customers arrive at the supermarket at an average of 10 in 20 minutes.

Calculate:

- (i) the traffic intensity;
- (ii) average time a customer spends in the system;
- (iii) average number of customer in the queue;
- (iv) the average time a customer spends waiting in the queue. (8 marks)
- (b) Transpota Ltd runs three wholesale depots in three towns. It delivers sold goods to the customers premises. During the month of June 2011, there were 5 customers who required goods to be delivered as follows:

	CUSTOMERS						
	A	В	C	D	E		
Demand	250	400	150	600	100		

The three wholesale depots had in store goods as follows:

		Quantity
Depots	I	800
	П	400
	III	300

The costs, in thousands, of shillings of transporting goods to the customers are given as follows:-

	A	В	C	D	E
Depots I	3	16	9	2	1
II	1	9	3	8	17
Ш	4	5	2	2	12

Calculate the initial total costs of transporting the goods to the customers using the Vogel's Approximation Method (VAM). (12 marks)