

TECHNICAL UNIVERSITY OF MOMBASA

SCHOOL OF BUSINESS

DEPARTMENT OF ACCOUNTING & FINANCE

UNIVERSITY EXAMINATION FOR:

BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING

BFI 4204 : ECONOMICS & ACCOUNTING

END OF SEMESTER EXAMINATION

INSTITUTIONAL BASED

SERIES: APRIL 2017

TIME: 2 HOURS

DATE: Pick Date Apr 2017

Instructions to Candidates

You should have the following for this examination -Answer Booklet, examination pass and student ID This paper consists of **FIVE** questions. Attempt question ONE (Compulsory) and any other TWO questions. **Do not write on the question paper.**

QUESTION ONE (COMPULSORY)

i) Answer the following;

a)	Economics is both a science and an art, explain	(2 Marks)
b)	Explain the law of supply	(2 Marks)
c)	Define the law of demand	(2 Marks)
d)	Explain the factors that lead to an upward shift in the supply curve	(2 Marks)
e)	Distinguish between point elasticity of demand & cross elasticity of demand	(2 Marks)

ii) Using the rate of return of 15 percent, determine:

a)	a) The future value of shs 2,400,000 invested now for a period of 5 years and another shs 300,000 from now (5		
b)	The future value at the end of 10 years of an annual deposit of shs 500,000	(3 Marks)	
c)	The future value of a deposit of shs 250,000 made at the beginning of each year for 4 years	(2 Marks)	
iii)	Differentiate between contributory and non-contributory insurance	(4 Marks)	
iv)	List three advantages of contributory insurance	(3 Marks)	
v)	List three disadvantages of non-contributory insurance	(3 Marks)	
QUES	ΓΙΟΝ ΤWΟ		
a)	a) Explain the following costs by use of examples		
	i. Fixed costs	(2 Marks)	
	ii. Variable costs	(2 Marks)	
	iii. Semi-variable costs	(2 Marks)	
	iv. Direct costs	(2 Marks)	
	v. Indirect costs	(2 Marks)	
b)	Discuss basic assumptions of cost volume profit analysis	(5 Marks)	
c)	Elaborate the practical application of marginal costing	(5 Marks)	

QUESTION THREE

b)

a) A company produces single product which sells for shs 20 per unit. Variable cost is shs 15 per unit and fixed overhead for the year is shs 630,000.

Required

Distir	nguish between job costing and batch costing	(10 Marks)
iii.	Calculate margin of safety sales if profit is shs 60,000	(3 Marks)
ii.	Calculate sales price per unit to bring BEP down to 120,000 units	(2 Marks)
i.	Calculate sales value needed to earn a profit of 10% on sales	(5 Marks)

QUESTION FOUR

An organization is considering a capital investment in new equipment. The estimated cash flows are as follows.

Year	Cash flow
0	(240,000)
1	80,000
2	120,000
3	70,000
4	40,000
5	20,000

The company's cost of capital is 9%.

a)	Calculate the NPV of the project to assess whether it should be undertaken	(10 Marks)
b)	List advantages and disadvantages of using NPV	(10 Marks)

QUESTION FIVE

a)	What is meant by cost centre	(2 Marks)
b)	Discuss cost classification based on variability and controllability	(6 Marks)
c)	You have been asked to install a costing system in a manufacturing company, what practical will you expect and how will you propose to overcome them	difficulties (8 Marks)
d)	Distinguish between controllable and uncontrollable costs	(4 Marks)