GATITU SECONDARY SCHOOL, P.O. BOX 327 - 01030, GATUNDU.

FORM 2 MATHEMATICS MID TERM EXAMINATION. TERM I 2016

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Name:_____ADM.NO.___CLASS:_____

- i) Write your name in the spaces above.
- ii) Answer all the questions in the spaces provided below each question.
- iii) All working must be clearly shown giving answer at each stage.
- iv) Mathematical tables and non programmable silent electronic calculators may be used.
- 1. Express each of the fractions as a single fraction in its simplest form.
- a) x+y = 2x-y
 - 3 2

(3mks

b)
$$\frac{1}{x+1} - \frac{1}{x-1}$$

(3mks

$$\frac{1}{2} + \frac{1}{6}$$
 of $(\frac{13}{18} - \frac{5}{9}) - \frac{1}{3}$ (4mks)

The sum of the interior angles of a polygon is 1440° . Find the number of sides. (3mks)

4. The external radius of culvert is 0.5m and it is 0.1m thick. If the culvert is 2.8m long, Find the volume of the material used to make it (Take $\mathcal{T} = 22$). (4mks

5. The ratio of the cost of a commodity X to that 30f commodity Y is 2:3. The ratio of Y to Z is 6:1. If the state of the three commodities is 1100 shillings, Find the cost of X. (4mks

b) Express the cost of Z as a percentage of the cost of Y.

(3mks

6. Solve the following simultaneous equations

$$3x + 4y = 18$$

$$2x - y = 1$$

(3mks

7. Use a ruler and a pair of compasses to construct a triangle ABC in which AB = 7.5cm, BC = 6cm and AC = 4.5cm. (3mks

(3mks

$$\angle$$
 ACB = \angle BAC =

Draw the circle passing through the points A, B and C. Measure the radius of the circle. Calculate the area of the circle. (5mks

8. goods	A girl was allowed a discount of 11% for goods worth sh. 80 worth sh. 17000. What percentage discount was she allowed		t of 8.6% for (3mks
9. the circ	The length of an arc of a circle is 1/10 of the circumference le is 13.86cm2. Find the angle subtended by the arc at the		
b)	The area of the sector enclosed by the arc.	(3mks	

10. The table below shows the amount of money charged for hiring a car for a given distance.

Distance (km)	10	20	30	40	
Charges	75			40	50
	75	100	125	150	175
					1/3

- a) Draw a graph of the charges against the distance covered. (Use graph paper provided) (5mks
- b) Use your graph to find the standing charge. (2mks
- ii) How much money is charged for covering 28km, 33km and 42km. (3mks
- iii) The distance covered if sh 131, sh 140 and sh 190 is charged. (3mks

11. Measurements of a maize field using a base line PQ were recorded as below measurements are in metres.

] Q	
	240	
To R 60	190	
	180	75 to Y
	150	50 to X
To S 100	120	
	100	100 to N
To T 30	50	
	20	20 to M
	Р	
	' 1	

a) Use a suitable scale to draw the map of the maize field.

(5mks

b) Find the area of the field in hectares.

(4mks

12. Evaluate the cube root of (27 x 64)

(1mk

GATITU GIRLS SECONDARY SCHOOL BOX 327-01030 GATUNDU BUSINESS STUDIES **FORM TWO** MID-TERM EXAM 1ST TERM 2016

	five principles of a co-operative Society	5mks
c)		
d)		
e)		
utline for	ur reasons why one may prefer to buy goods from the Supermarket ins	stead of the (4mks)
		, ,
a)		
b)		
۵)		
C)_		
-		
d)		(4 mks
d)	the terms given to each of the following statements. Statement	
d)	the terms given to each of the following statements.	(4 mks
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d)dentifya.	the terms given to each of the following statements. Statement Transport goods from producers to consumers	(4 mks
dentify a. b.	the terms given to each of the following statements. Statement Transport goods from producers to consumers Activities carried out with a view of making profit.	(4 mks
dentify a. b. c. d.	the terms given to each of the following statements. Statement Transport goods from producers to consumers Activities carried out with a view of making profit. A person who uses a good or service. Increasing the usefulness of a good or services	(4 mks
d)dentify a. b. c. d.	the terms given to each of the following statements. Statement Transport goods from producers to consumers Activities carried out with a view of making profit. A person who uses a good or service. Increasing the usefulness of a good or services four business resources that business can use to enhance its open	(4 mks Term ration. (4 marks)
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	e four characteristics of basic wants.	(4 marks)
	four gaps in the market that may give rise to a business opportuni	ity. (4 marks)
7Ind		
a)		
b)		
c)		
d)		
	te in the table below the office machine used to perform the follow	
	Function	Machine
a.	Folding documents, placing them in envelopes and sealing the envelopes.	
b.	Making holes on papers for filing	
c.	For destroying unwanted papers.	
d.	For trimming documents into required shapes and sizes.	
	ght four features of direct production.	(4 marks
d)		
Highli	ght four circumstances under which a cheque can be dishourned	4mk
a)		
b)		
d)		

10. Outline four advantages of consumer co-operatives. a)	(4 mks
b)	
c)	
d)	
11. Highlight four sources of capital for a sole proprietor a)	(4mks)
b)	
c)	
d)	
12. List four ways in which filling of documents may facilitate smooth running of an office	
b)	
c)	
d)	
a)	(4mks)
b)	
c)	
d)	
14 List four circumstances under which a partnership can be dissolved a)	(4mks)
b)	
c)	
d)	
5. State four advantages of consumer co-oparatives a)	(4mks)
b)	
c)	

d)	
d) deredit co-operative societies (Saccos)	(4mks)
16 Highlight four problems facing savings and credit co-operative societies (Saccos)	
2)	
b)	
c)	
d)	
	(5mks
17. Outline five importances of business studies to the society	
a)	
b)	
c)	
d)	
e)	