**MBOGO HIGH SCHOOL**

**DEPARTMENT OF MATHEMATICS**

**TOPICAL TEST (BUSINESS MATHS) March -2013**

CLASS ; senior four

DURATION ; 1hr

**INSTRUCTIONS :** Attempt all questions in this paper and neat work is a **MUST.**

1. A forex bureau buys one US dollar at Ug.Shs.1, 900 and sells one pound sterling at Ug.Shs.3450.Atim wants to exchange 3,000 US dollars to pound sterlings.How many pound sterlings will she get?

2. (a) An FM radio commercial section charges fees for any radio announcements as follows; the first ten words Shs.5000 and any additional wordShs.100 each. Find the total charge for the announcement below.

“Mr. John musoke, the chairman organizing committee of the wedding preparatory meetings of Mr. James Lima and Miss Vanessa Tukko announces the cancellation of the wedding meeting which was scheduled to begin on Wednesday,11th August, 2004 at Kalori gardens, national theatre, kampala.Any inconveniences caused are highly regretted. A new date and venue for the meetings will be announced later”.

(b) Mr. Ronald Anguyo bought a car at Shs.4, 500,000.The car depreciates at a rate of 12 per annum.After 2 years, Ronald decided to sell the car to his friend at 25 less of the value of the car then. Find the price at which his friend bought the car.

3. A man earns a gross annual income of Shs.10, 500,000.He is entitled to the following monthly allowances.

|  |  |
| --- | --- |
| children | Shs.15, 000 for each child aged 12 and below.  Shs.12, 000 for each child between age 15 and 18 inclusive. |
| Lunch | Shs.60,000 |
| Transport | Shs.110,000 |
| Medical | of gross monthly income |
| Marriage | of gross monthly income |
| Housing | of the gross annual income |

The man is married with five children of whom two are aged 12 and below, the other two aged 21 and 24 and the other aged17.The following tax structure is applicable on the taxable income in excess of Shs.30, 000.

|  |  |
| --- | --- |
| **Taxable income (Shs.)**  00001-30,000 | **Rates ( ages)**  Free |
| 30,001-130,000 | 8.0 |
| 130,001-260,000 | 14.5 |
| 260,001-380,000 | 23.0 |
| 380,001-490,000 | 28.5 |
| 490,001-590,000 | 35.0 |
| 590,001 and above | 42.5 |

(NB: A month has 30 days and a year 360 days)

Calculate:

a) The man’s (i) total monthly allowance

(ii) Monthly taxable income

(iii) Monthly income tax

b) The percentage of his gross annual income that goes to tax.

4. (a) A dikini bought a television set for which the cash price was Shs.599,000.She bought the television set on a hire purchase scheme and had to pay an extra Shs.71,000.If she made eight equal monthly instalments,how much did she pay per month?

(b) Mukasa wants to buy a house which is priced at Shs.56; 000,000.Adeposit of 25 of the value of the house is required.A bank will lend him the rest of the money at a compound interest rate of 15 per annum and payable after two years.

Calculate the;

(i) deposit mukasa must make.

(ii) amount of money mukasa will have to pay the bank after two years.

(iii) total money which mukasa will spend to buy the house.