28. (a) The table **below** shows the production of maize at various level of NPK fertilizer

application. Study it carefully and answer the questions that follow.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Land size  in ha | Variable input  NPK in kg | Total product  maize in  90kg bags | Marginal product  maize in  90kg bags | Average product  maize in  90kg bags |
| 1 | 50 | 10 | 10 | 10 |
| 1 | 100 | 27 | A | F |
| 1 | 150 | 42 | 15 | 14 |
| 1 | 200 | 56 | B | 14 |
| 1 | 250 | 63 | 7 | 12.6 |
| 1 | 300 | 65 | C | G |
| 1 | 350 | 65 | D | 9.3 |
| 1 | 400 | 60 | -5 | 7.5 |
| 1 | 450 | 52 | E | H |
| 1 | 500 | 42 | -10 | 4.2 |

(i) Complete the above. (4mks)

1. Using the graph paper provided draw a graph of total product, marginal

product and average product against variable input on the same axis and

mark the three zones of production. (7mks)

28. (a) Identify the routine management practices carried out on livestock when raising young

stock in dairy production. (8mks)

(b) Explain the different methods used to stimulate milk letdown in a lactating cow when

milking (5mks)

(c) Tractor is one of the most important source of energy in the farm. Outline maintenance practices carried out on a tractor to maintain its efficiency (7mks)