**NAME……………………………………………………INDEX NO. ………………CLASS………**

**ADM NO…………………….DATE: ……………………………..SIGN: …………………….………**

**443/1 AGRICULTURE**

**PAPER 1**

**(THEORY)**

**September 2019 - 2hrs**

**PANGANI GIRLS’ HIGH SCHOOL**

**POST MOCK 2019**

*Kenya Certificate of Secondary education (K.C.S.E)*

**Instructions to candidates**

*a) Write your name and index in the spaces provided above*

*b) Sign and write the date of examination in the spaces provided above*

*c) This paper consists of* ***three*** *sections* ***A, B*** *and* ***C****.*

*d) Answer* ***all*** *the questions in sections* ***A*** *and* ***B****.*

*e) Answer any* ***two*** *questions in section* ***C***

*f)* ***All*** *answers should be written in the spaces provided in the question paper.*

*g)* ***This paper consist of 8 printed pages***

*h)* ***Candidates should check the question paper to ascertain that all the pages are printed as***

***indicated and that no questions are missing***

*i)* ***Candidates should answer all the questions in English.***

**For Examiner’s Use Only**

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| --- | --- | --- | --- |
| **Section** | **Question** | **Maximum**  **Score** | **Candidates Score** |
| **A** | **1 – 17** | **30** |  |
| **B** | **18 - 20** | **20** |  |
| **C** | **21 - 23** | **20** |  |
|  | **20** |  |
| **Total Score** | | **90** |  |

**SECTION A (30 Marks)**

*Answer* ***ALL*** *questions from this section in the spaces provided.(30mks)*

1. State **four** limitations of pastoral nomadism (1mk)

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2. List**four** environmental conditions that may lead to low crop yields. (2mk)

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3. Give**four** factors which determine the depth of ploughing (2mks)

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4. List**four** features of plastic pipes a farmer should consider before buying the pipes (2mks)

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5. State**four** advantages of using farmyard manure over straight fertilizers (2mks)

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6. State **four** qualities of certified maize seeds (2mks)

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7. State**three** disadvantages of tenancy system of farming (11/2mks)

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8. Give**four** natural factors that encourage soil erosion (2mks)

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9. State**four** field conditions that may favour the choice of chemical weed control (2mk)

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10. Give**three** damages caused by squirrels(11/2mks)

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11. Name the type of farm record from which each of the following information could be

obtained: (11/2mks)

(a) Common Livestock disease occurring in a given farm.

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(b) The number of jembes a farm owns.

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(c) The sire used to obtain the calves on the farm.

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12. State **three** changes that would indicate improvement in labour efficiency in a farm (11/2mks)

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13. State the use of each of the following financial documents (1mk)

(a) Invoice…………………………………………………………………………………

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(b) Cash receipt……………………………………………………………………………

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14. State**four** functions of calcium in plant growth and development (2mks)

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15. Give**four** reasons for sowing annual crops early in the planting season (2mks)

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16.a) Per capital income is one of the measures of a country’s development, what does it mean? (1mk)

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b) Mention any **two**ground sources of water. (1mk)

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17. (a) Distinguish between monopoly and monopsony (1mk)

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(b) State the law of demand (1mk)

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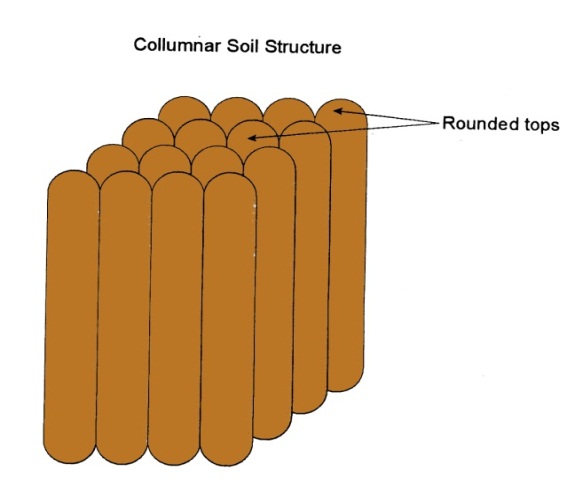
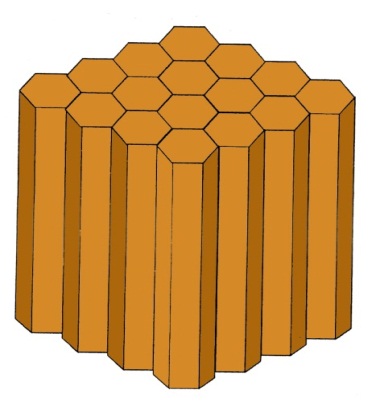
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**SECTION B (20MARKS)**

***Answer ALL the questions in this section in the spaces provided.***

18. The diagram below illustrates two types of soil structures. Study them carefully and answer

the questions that follow



A B

(a) Identify the type of structure illustrated in A and B (2mks)

A…………………………………………………………………………….

B…………………………………………………………………………….

(b) Identify the areas where the two structures are commonly found (1mk)

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(c)State**three** ways in which soil structure influence crop production (3mks)

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19. (a) Outline the procedure for planting maize manually once you get to the farm with all the

materials.(4mks)

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(c) List **two** uses of micro catchments(2mks)

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20. (a) What do we mean by production function? (2mks)

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(b) Below are graphical representations showing different types of production functions.

Studythem and answer the questions that follow

A B C

(i) Identify the types of production function represented by diagrams A,B and C (3mks)

A…………………………………………………………………………….

B……………………………………………………………………………..

C……………………………………………………………………………..

(c) List**three** circumstances in which illustration (B) above occurs (3mks)

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**SECTION C**

***Answer any TWO questions in this section***

21.(a) Describe cabbage production under the following subheadings

i) Major varieties(2mks)

ii) Field management practices (4mks)

iii) Harvesting of cabbages (4mks)

(b) The following information was extracted from Mr. Njuguna’s farm

Cash at hand ksh 5,000

Bank overdraft ksh40,000

Land value ksh 500,000

Lorry worth ksh 3000,000

Grains in store ksh 80,000

Dairy cattle ksh 150,000

Cash at bank ksh 50,000

Debts receivable from dairy co-operative ksh 12,500

Layers ksh 30,000

Debts payable ksh 26,100

(i) Using the above information, prepare a Balance sheet for Njuguna’s farm as at 31stDec

2017 (9mks)

(ii) What is the net worth of the farm? (1mk)

22. (a) Describe 6 methods of draining water logged land (12mks)

(b) Explain four methods of preventing water pollution (4mks)

(c) Explain **four** factors that influences seed rate (4mks)

23. (a) Outline **five** qualities of good silage (5mks)

(b) Explain **five** roles of farm manager in production (5mks)

(c) State and explain **five** factors affecting selectivity of herbicides (10mks)