

# UMMUL QURA HIGH SHOOOL

Arowona Bus-Stop Amuloko Akanran Road, Ibadan.

## THIRD-TERM EXAMINATION

**CLASS:** SSS 1

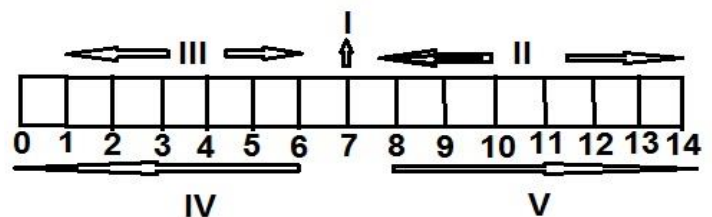
**SUBJECT:** Agric Sc.

**DURATION:** 2 hours.

**Instructions:** Answer *all* questions in Section A and *three* in Section B.

### SECTION A: OBJECTIVES

- Another name for organic matter is ----.  
A. humus  
B. mineral matter  
C. manure  
D. fertilizer
- The following are types of soil water except ----.  
A. capillary water  
B. field capillary  
C. hygroscopic water  
D. gravitational water
- The ability of air to circulate freely in the soil is known as ---.  
A. leaching  
B. aeration  
C. wind  
D. porosity
- One is **not** an example of living organism in the soil.  
A. bacterial  
B. snails  
C. insects  
D. humus
- The soil with particle size of less than 0.002 mm in diameter is -----.  
A. clay  
B. sand  
C. loam  
D. silt
- The best horizon in soil profile horizon---.  
A. A  
B. B
- The horizon from which top soil and sub-soil are formed is called horizon ----.  
A. A  
B. B  
C. C  
D. D
- The full meaning of pH is ----.  
A. Pondus de hydrogen  
B. Ponds de hydrogen  
C. Ponds de hydronium  
D. Pondus de hydronium
- The particles of Sandy soils are mainly quartz. The chemical compounds of quartz are ----.  
A. SiO  
B. Co<sub>3</sub>  
C. SiO<sub>2</sub>  
D. SiO<sub>3</sub>



- In the diagram above the part label **IV** is -.  
A. neutral  
B. increased acidity  
C. increased alkalinity  
D. acidity

11. The best machine for pulling up trees from their stands with minimum disturbance to the rich top soil is ----.
  - A. bulldozer
  - B. tree puller
  - C. tractor
  - D. tree lifter
12. The machine used to separate grains at 10% moisture content from the cob or husks is ----.
  - A. De-lober
  - B. De-husker
  - C. Sheller
  - D. Grinder
13. It takes ---- days for fertile eggs to develop and hatch to chick in the incubator.
  - A. 20
  - B. 21
  - C. 22
  - D. 23
14. The optimum level of humidity in the incubator should be ----%.
  - A. 40
  - B. 50
  - C. 60
  - D. 70
15. Which is one not a product of milk?
  - A. Butter
  - B. Cheese
  - C. Yoghurt
  - D. Soya milk
16. In which layer of the soil profile does most biological activities occur? Horizon
  - A. A
  - B. B
  - C. C
  - D. D
17. Which of the following types of soil contains particles of diameter between 0.02 mm and 2.0 mm?
  - A. Clay
  - B. Sandy
  - C. Stone
  - D. Silt
18. The cross-section of a segment of soil showing the horizon or layers is known as the ----.
  - A. soil structure
  - B. depth
  - C. section
  - D. profile
19. The process whereby rocks are broken down into small particles through both physical and chemical factors is ----.
  - A. rock hydration
  - B. oxidation
  - C. erosion
  - D. weathering
20. The parent material of a soil is formed from the disintegration of ----.
  - A. sand
  - B. gravel
  - C. silt
  - D. rock
21. Which of the following will not contribute to soil formation in Nigeria?
  - A. Carbonation
  - B. Oxidation
  - C. Temperature
  - D. Glaciation
22. The different types of soil are determined by the relative amount of each of the following components except;
  - A. Rocks
  - B. Air
  - C. Water

- D. Organic matter
23. Which of the following factors does not bring about soil formation?
- Climate
  - Time
  - Parent material
  - Sunshine
24. A soil with low pH value can be improved by the addition of ----.
- sodium chloride
  - calcium carbonate
  - ammonium sulphate
  - sodium nitrate
25. Which one of the following tools is the best for making g seed beds?
- Hand fork
  - Mattock
  - Spade
  - Axe
26. A soil with pH 2 can be described as ----.
- moderately acidic
  - neutral
  - moderately alkaline
  - highly acidic
27. The Nigeria land use act of 1978 puts the right of ownership of land on the ----.
- president of the farmers
  - heads of family unit
  - head of the society
  - governor of the state
28. The provision of farm inputs to farmers by the government can best be described as -- --.
- loan
  - capital
  - credit
  - subsidy
29. The high fertility, good topology, good drainage, structure and texture are characteristics of a land meant for ----.
- wild life
  - forestry
  - fish farming
  - agriculture
30. An important farm machine used for coupling many implement is ----.
- disc harrow
  - harvester
  - tractor
  - plough
31. Which of the following occupations is not associated with agriculture? Production of ----.
- polythene
  - honey
  - fertilizer
  - saw-milling
32. Liming is used to correct soil's ----.
- neutrality
  - acidity
  - exchange capacity
  - porosity
33. In the determination of soil texture, a soil sample was found to be smooth and powdery when dry and formed a cast when wet that, that soil is ----.
- clay
  - silt
  - loam
  - sand
34. Which of the following gives the correct order of usage of tillage implement on Virgin land?
- Harrow, ridgers, plough
  - Ridgers, plough, harrow
  - Harrow, plough, ridgers

- D. Plough, harrow, ridgers
35. Capillary is high in ----- soil.
- clay
  - loamy
  - sandy
  - silt
36. The most appropriate farm implement for breaking soil clode is the ----.
- harrow
  - plough
  - ridgers
  - mower
37. Which of the following part is common to both the disc and moldboard plough----?
- plough shade
  - land slide
  - coulter
  - beam
38. Which of the following implements is not hand operated?
- Garden shears
  - Ridgers
  - Cutlasses
  - Secateurs
39. Which of the following activities does not clearly described the art of mechanization?
- Using milking machine on dairy animal
  - Cleaning land with a cutlass
  - Harvesting maize with a harvester
  - Using tractor to apply herbicide
40. A spade is mainly used for ----.
- weeding
  - pruning
  - planting
  - digging
41. Agriculture helps to solve all the following problems *except* -----.
- malnutrition
  - unemployment
  - high population growth rate
  - inadequate healthier materials
42. Which of the following is not a factor of soil formation?
- Topology
  - Land conservation
  - Parent materials
  - Climate
43. What is the percentage of water content of soil sample which weighed 280g when fresh and 120g when over dried?
- 66.7%
  - 60.0%
  - 15.0%
  - 33.33%
44. One is *not* a component of an incubator.
- lantern
  - hydrometer
  - thermometer
  - fan.
45. The full meaning of P. T. O in tractor TS.
- Please-take-off
  - Power-take-off
  - Power-take-over
  - Please-turn off
46. The following are components of tractor except ----.
- PTO
  - Ford
  - HCS
  - Four wheels with rubber tyres
47. One of the advantages of using tree puller over bulldozer is that, tree puller ----.
- reduced soil fertility
  - causes soil compaction
  - does not destroy soil structure
  - is expensive
48. Soul with pH 13 is said to be ----.

- A. acidic
- B. alkaline
- C. strongly acidic
- D. strongly alkaline

49. The relative proportions or size of the various soil particles is soil ----.

- A. texture
- B. temperature
- C. structure

- D. profile

50. HCS means ----.

- A. Hydraulic control system
- B. Hydrogenous control system
- C. Hydraulic contour system
- D. Hydro control system

## **SECTION B: THEORY**

**Instructions:** Answer any **three** questions from all

1. a. What is rock weathering?  
b. State **four** factors that affect the formation of soil.  
c. Explain briefly **four** types of chemical weathering.
2. a. Write short note on each of the following;
  - i. Tractor
  - ii. Incubators
  - iii. Sprayers
  - iv. Sheller's  
b. Name **ten** simple farm tools and explain any **two**.
3. a. Explain the following terms
  - i. Soil structure
  - ii. Soil texture  
b. Describe soil profile in details
4. a. List **six** factors that causes food shortages in Nigeria.  
b. List and describe the process of soil formation.  
c. State **two** advantages and two disadvantages of land use act

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Third-Term Examination

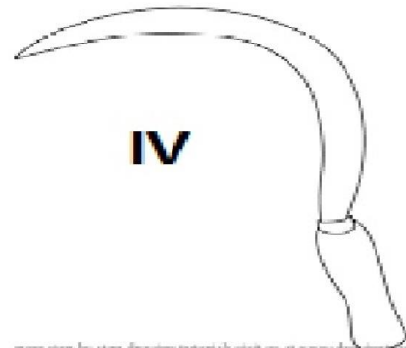
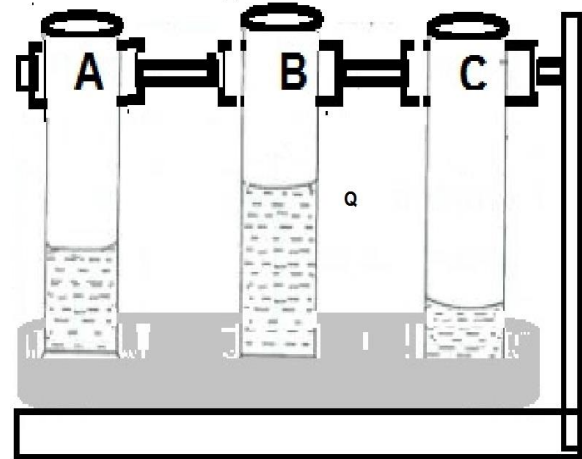
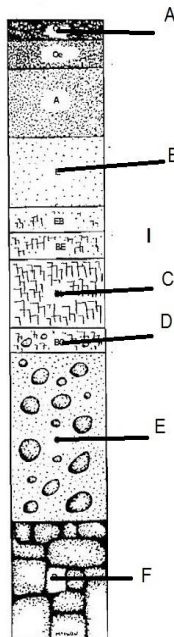
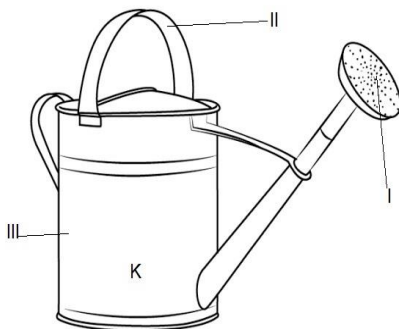
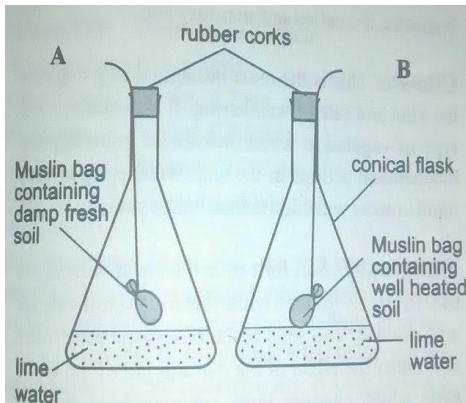
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**Instructions:** Answer *all* questions in **Section**.

## SECTION C: PRACTICAL



1. a. Starting the major differences between the experiment set-up illustrated by diagrams A and B.

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b. State the aim of the experiment being demonstrates as illustrated in the diagram A and B.

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c. What will happen to the lime water at the end of the experiment demonstrates by diagrams A and B?

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Give reasons for your answers.

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d. What is your conclusion concerning the experiment?

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2. a. Name the parts labelled A-F on the diagram I.

A. \_\_\_\_\_

D. \_\_\_\_\_

B. \_\_\_\_\_

E. \_\_\_\_\_

C. \_\_\_\_\_

F. \_\_\_\_\_

b. State **three** other methods which can be used to determine the soil texture.

i. \_\_\_\_\_

ii. \_\_\_\_\_

iii. \_\_\_\_\_

c. List **four** major constitutes of the soil.

i. \_\_\_\_\_

iii. \_\_\_\_\_

ii. \_\_\_\_\_

iv. \_\_\_\_\_

3. a. What is the aim of the experiment set-up in Q?

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b. Name the type of soil in apparatus A, B and C.

A. \_\_\_\_\_

C. \_\_\_\_\_

B. \_\_\_\_\_

c. Describe briefly the procedure used in setting up the experiment.



