

CSSC-SOUTHERN ZONE
FORM FOUR JOINT EXAMINATION
AGRICULTURE 01
MARKING SCHEME

SECTION A (16 Marks)

1.

i	ii	Iii	iv	v	Vi	Vii	viii	ix	x
E	A	B	C	C	A	B	E	C	E

2.

LIST A	i	ii	iii	iv	v	vi
LIST B	B	E	G	F	A	H

SECTION B (54Marks)

3.–Source of raw materials

_ Provides employment

_ Is a source of capital

@1.5marks

_ Provides market

_ Improves the life standards of people

4. (a) (i) Provide the oxen with extra feeds

(ii) Control parasites and diseases

(iii) They should have time to rest in a good place (shade place)

(iv) Check for injuries and health of the animal

(v) The animal should work under recommended hours

(vi) Observe proper sanitation to the environment and equipments used for various animal husbandry practice **Any 5 points @1 marks , total five marks**

(b)(i) They should be between 2-3 years for local breeds and 1.5-2 years for exotic breeds

(ii) Must be steers

(iii) Humped animals are recommended

(iv) The animal should be low tempered

(v) The animals should be of the same size **Any 4 points @ 1mark , total 4 marks**

5 (a) (i) Is a solution to farm limited resources

(ii) Can be used for rehabilitation for degraded environment

(iii) Source of food

(iv) Make the use of land efficiently

(v) Labour costs saving

- (vi) Source of raw material
- (vii) Source of employment **Any 5 points @1marks , total 5 marks**
- (b) (i) Agrosilviculture
 - (ii) Silvopastoral
 - (iii) Agrosilvopastoral
 - (iv) Aposilvicultural
 - (v) Aquasilviculture **Any 4 points @ 1 mark**
- 6 (a) (i) Improvement of transport system
 - (ii) Provision of market information
 - (iii) Formation of cooperative societies
 - (iv) Keep land under cultivation
 - (v) Provision of storage facilities
 - (vi) Production under contract basis **Any 5 points @1marks , total 5 marks**
- (b) (i) Perishability of the products
 - (ii) Seasonally produced
 - (iii) Bulkness of the products
 - (iv) Variation in equality
- 7. (a) (i) Spacing depends on vegetative growth of specific crop
 - (ii) Spacing also help to determine or depend on the fertility of the soil
 - (iii) Depend on the machinery used
 - (iv) Spacing depends on the size of the plant
 - (v) Moisture availability in the soil
 - (vi) Purpose of the crop to be grown
 - (vii) Number of seed or plant per hole
 - (viii) Whether the crop is pure stand or intercropped

Any 7 points @1marks , total 7marks
- (b) Plant population is the number of plant per unit area
- While
- Seed rate is the number of planting materials required per stand **2marks**
- 8. (a) (i) soil erosion
 - (ii) Burning of vegetation
 - (iii) water logging
 - (iv) flooding
 - (v) Leaching
 - (vi) Crop remove through continuous cropping and grasing

Five points @ 1marks , total Five (5) marks
- (b) (i) Type of the animal
 - (ii) Type of food eaten
 - (iii) Types of bedding materials
 - (iv) Methods of storage
 - (v) Age of the animal.

Any four poits @1 marks , total 4marks

SECTION C: (30 MARKS)

9. (i) Crop rotation
(ii) Mulching
(iii) Cover crops
(iv) Contour farming
(v) Use of proper spacing
(vi) Practice minimum tillage
(vii) Practice agro-forestry.

10. **Biology** is applied in agriculture during the development of useful livestock breeds and crop varieties

Physics the knowledge of physics used for making machine implements and tools used in agriculture for various farm activities

Chemistry helps in making agrochemicals and their application in the farm

Geography helps the farmer to know the time to performing various activities. Also helps to know the distribution of Animals and plants according to the climatical conditions

Mathematics helps to Mathematical calculations like to know the number of numbers of animals, to know the number of plants which are present in a particular field

Home Economics it helps to know how to use and manage agricultural products

Business studies helps to know the profit and the loss in farm transaction.

11. Soil texture

- It is important in influencing root penetration and growth
- It is also influencing water holding capacity in the soil
- It influence air circulation in the soil

Soil structure

- It allows more air to circulating in the soil
- It influence seed germination and root penetration
- It influence water holding capacity

Soil porosity

- It influence seed germination and plant growth
- Provides a room for microbial activity in the soil
- It influences organic matter decomposition so as to release nutrients for plants growth

Any six points @2marks

Introduction 11/2 marks

Conclusion 11/2marks