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9/6/12



Mansoura University

Faculty of Agriculture

Final Exam of Agr.311 Crop Production 1

Third level : Plant Production Program

2nd Semester 2011/2012

Time allowed: Two Hours-Exam

Exam Date: 9/6/2012

Exam Questions in 5 pages (60 Marks)

A. Answer the following questions in your sheet answer (20 Marks):

- 1-Why we are planting wheat with recommended seeding rates?(5 Marks).
- 2-What is the species groups cultivars of Alfalfa? (5 Marks).
- 3-What are the types of sorghum grown? (5 Marks).
- 4-Write about the cases which rice field dried from water?(5 Marks)

B. Answer the following questions (40 Marks)

1.Put sign true or false before the following sentences (10 Marks):

- 1-() catch crops are substitute crops planted too earlier for regular crops or after the regular crop have failed.
- 2-() the small, round-oval seeded tick bean or horse bean (*Vicia faba* var. major).
- 3-() nitrogen make up to 0.1 to 0.4 percent of dry matter of the plant, it is taken up from the soil in the form of nitrate or ammonium.
- 4-() magnesium is a central constituent of chlorophyll, the green pigment of the leaves thus, 5 to 10 percent of the magnesium found in plant is contained in the leaves.
- 5-() hard white wheat is hard, light-colored, opaque, chalky, high protein wheat planted in dry, temperate areas and used for bread and brewing.
- 6-() Sakha 92 variety tolerant to soil acidity and cultivate in newly reclaimed soil, especially on Sinai and North Delta soils.

- 7-() reducing light intensity during lentil growth reducing branching, shortest plants and increasing in NP uptake.
- 8-() rice cultivated from latitude between 40° Southern and 45° Northern hemisphere.
- 9-() increasing light period than optimum (8-12 hrs) during rice grown, decreased number of tillers/plant and increase time of panicle initiation.
- 10-() Giza 177 variety seedling transplanting at 20X20 cm after 25-30 days from sown and cultivate in Delta region.
- 11-() rice seedlings must be transplanting after seedling reach 35-38 days.
- 12-() field must be not dried from water when rice field want to control of *Chara vulgaris*, L.
- 13-() during periods of drought or other plant stress, sorghums tend to accumulate hydrocyanic acid, which can poison livestock.
- 14-() Sudan grass can be harvested as pasture, green chop or silage, but is superior in forage yields to other sorghums only when used for hay.
- 15-() alfalfa first irrigation after three weeks from planting and then irrigate each ten days intervals may reduce or increase according to temperature of weather.
- 16-() Egyptian clover sown by broadcasting (Ala El-Lama) in absent of water after soil levelling (settlement) for increasing seed germination.
- 17-() single cross hybrid is progeny of a cross between 2 parent's double cross.
- 18-() maize has the highest average yield per hectare and is second after wheat in area harvested and total production.
- 19-() Late in lentil sown at optimum date will increase seed yield and infected with down mildew on lentil especially in Delta region.
- 20-() chickpea dry matter; stem and branching will be decrease as light intensity increased.

2. Select the appropriate answer from the following questions (20 Marks):

1-Essential element for plant like

- a) zinc. b) boron. c) nitrogen. d) iron.

2-When we found leaves show discoloration along outer margin from tips to base is deficiency symptoms of

- a) phosphorus. b) potassium. c) nitrogen. d) sulphur.

3-Leaves frequently misshapen and crinkled, thick and brittle, white, irregular spots between veins is deficiency symptoms of

- a) boron. b) zinc. c) iron. d) manganese.

4-The optimum seeding rate for a wheat crop when sown with

- a) 40-50 kg/fed. b) 50-60 kg/fed. c) 50-60 kg/fed. d) 60-90 kg/fed.

5- The most suitable planting methods in Delta region of wheat is

- a) broadcasting. b) drilling at rows 10 cm.
c) drilling at rows 20 cm. d) drilling at rows 30 cm.

6- The optimum rate of nitrogen (N) application in wheat is

- a) 30-40 kg fed⁻¹. b) 40-50 kg fed⁻¹. c) 60-80 kg fed⁻¹. d) 80-100 kg fed⁻¹.

7- The highest country in rice productivity (kg ha⁻¹) in the world is

- a) India. b) Pakistan. c) China. d) Japan.

8- The highest country produced (kg ha⁻¹) of rice in the world is

- a) Japan. b) Pakistan. c) Australia. d) India.

9- Increasing in light periods during field bean grown lead to

- a) increase NP uptake. b) low branching.
c) reduce dry matter. d) reduce flowering.

10- Weight of ardab of grain rice is

- a) 110 kg. b) 120 kg. c) 130 kg. d) 140 kg.

11- Maize is grown between

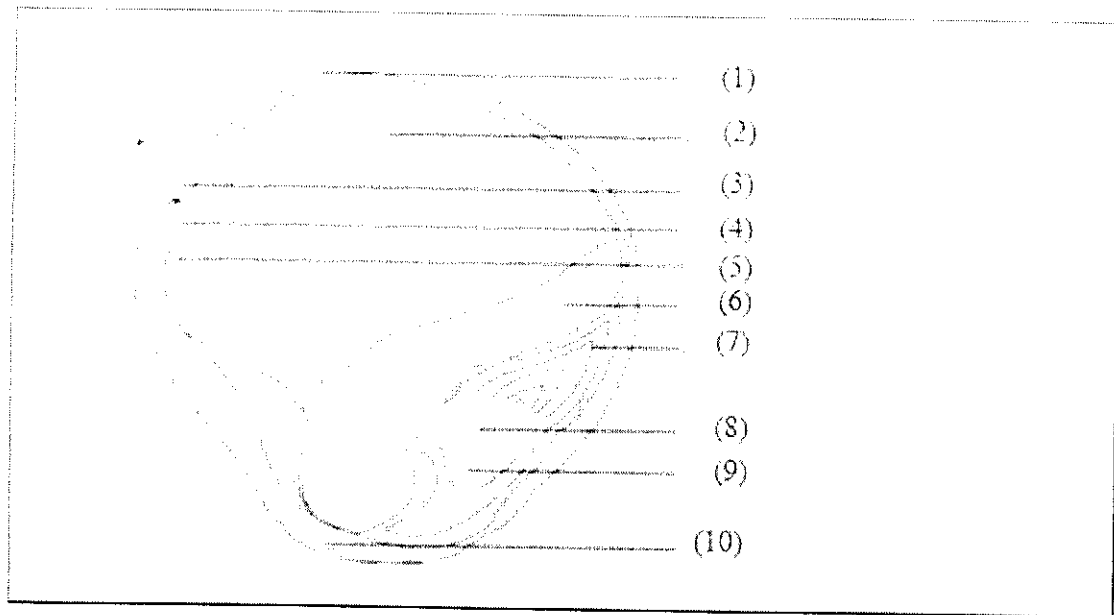
- a) 10°N and 15°N. b) 5°N and 15°N.
c) 58°N and 40°S. d) 30°N and 50°N.

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12. Maize growth and production are best in
a) clay loams b) calcic soil. c) saline soil. d) sandy soils.
- 13- The optimum planting date in Delta region of maize is
a) first June. b) First July. c) First April. d) First May.
- 14-. Maize type getting its name from grain crown and grown more than any other type of corn is
a) Dent corn. b) Flint corn. c) Popcorn. d) Flour corn.
- 15- Double cross hybrid yellow in its grain is
a) Amon. b) Taba. c) Sultan. d) T.C.352.
- 16- Reducing in temperature during seedling stage of field bean lead to
a) reduced growth. b) poor seed quality.
c) reduce dry matter. d) early flowering.
- 17- Field bean cultivar sown in sandy newly reclaimed soils is
a) El-Nobaria 1. b) Giza 714. c) Giza 717. d) Giza843.
- 18- The first cut of Alfalfa should be taken after
a) 35-40 days. b) 40-45 days. c) 45-50 days. d) 55-65 days.
- 19- Alfalfa cultivars sown in North Coast region is
a) Sewa 1. b) common alfalfa. c) baladi. d) Ismailia 1.
- 20- The third cut of berssem should be after the second cut by
a) 20-25 days. b) 25-30 days. c) 30-35 days. d) 35-40 days.
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3-Please put words in its place on the following figure?(10 Marks):



Answer:

- 1-
- 2-
- 3-
- 4-
- 5-
- 6-
- 7-
- 8-
- 9-
- 10-

With our best wishes...Exam Committee...

Prof. Ahmed Kandil

Prof. Ali Sharief

Dr. Walled El-Medawy

[Handwritten signatures of Prof. Ahmed Kandil, Prof. Ali Sharief, and Dr. Walled El-Medawy]