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AR-2017

B.Sc (Ag)

3rd SEMESTER REGULAR EXAMINATIONS, SEPT/OCT 2019-20

AG-233

CROP PRODUCTION TECHNOLOGY-I

Time : 2 Hours

Maximum : 50 Marks

SECTION – A

Q.1. Fill in the blanks with suitable words/figures :-

(10x0.5=5)

- a. The seed of soyabean contains about _____%protein and _____% oil.
- b. Recommended fertiliser dose for green gram is _____, _____ & _____ kg NPK/ha respectively.
- c. Maize belongs to _____ group of plant kingdom.
- d. Separation of fibres from seed cotton is known as _____.
- e. The centre of origin of rice is in _____ .
- f. Mungbean contains _____% protein.
- g. In arhar crop during germination the temperature requirement is _____to_____ °C
- h. The critical growth stages for irrigation in case of greengram are _____&_____
- i. Application of sulphur will help to increase _____ content in soyabean.
- j. The main stem of maize terminates in a _____.

Q.2. Write TRUE or FALSE against the statements:

(10x0.5=5)

- i. Bajra crop is also referred as camel crop
- ii. Beushaning and khelua operations are carried out in transplanted paddy.
- iii. Maize is a C₃ plant.
- iv. Sandy loam soil is most suitable for groundnut cultivation
- v. One seeded fruit of cereal is known as caryopsis.
- vi. Soybean belongs to family Tilliaceae
- vii. Vigna mungo is the botanical name of green gram.
- viii. Aflatoxin is associated with soyabean cake.
- ix. Arhar crop is suitable for dryland regions.
- x. Parboiling in rice conserves vitamin A



Q.3. Match the followings (Write the number of Column-A in the () of Column-B (10x0.5=5)

Column-A	Column-B
i. Highest soyabean producing state	Tikka ()
ii. Highest cotton producing state	Silking ()
iii. Water requirement of sorghum	Blister beetle ()
iv. Pigeon pea	Madhya Pradesh ()
v. Groundnut	Panicle ()
vi. Soybean	Ginning ()
vii. Paddy	750-850mm ()
viii. Cotton	Bragg ()
ix. Maize	450-650mm ()
x. Water requirement of groundnut	Gujarat ()

Q.4. Write short notes on the following: (5x1.0=5)

- a. Growth stages of maize
- b. Nutrient management and harvesting of napier grass.
- c. Fertilizer management in arhar.
- d. Pegging in groundnut
- e. Branching in cotton

SECTION – B

(Attempt any **five** questions. Each question carries equal marks) **(5 x 6= 30)**

- Q.5.** Write down the economic importance of maize. Classify maize crop on the basis of grain type.
- Q.6.** Mention the types of cotton grown in India. Describe in brief about the cultivation practices of cotton with reference to climate, sowing and nutrient management.
- Q.7.** Briefly describe the various management options with respect to weed, nutrient and water in transplanted rice.
- Q.8.** Describe in brief the nutrient, weed and water management practices followed in groundnut cultivation.
- Q.9.** What are the problems and prospects of jute cultivation and how you will overcome the weed and retting problem in this crop.
- Q.10.** Write the economic importance of soyabean and explain why it is considered dual purpose crop.