

12. _____ is used as a green manure crop.
 a) Rice
 b) Pearl millet
 c) Green gram
 d) None of these
13. _____ is the origin of pigeon pea.
 a) India
 b) Africa
 c) South & SE tropical Asia
 d) Central Burma
14. Rice is a _____ plant.
 a) Long day plant
 b) Short day plant
 c) Neutral
 d) None
15. _____ variety is tall, weak stemmed and susceptible to lodging and less responsive to heavy fertilizers.
 a) Indicas
 b) Japonicas
 c) Javanicas
 d) None
16. Nitrogen is lost through soil as _____.
 a) NH₃ volatilisation
 b) Leaching
 c) Denitrification
 d) All of the above
17. In rice the requirement of phosphorus is _____ for red soil.
 a) 80 kg P₂O₅ /ha
 b) 40 kg P₂O₅ /ha
 c) 60 kg P₂O₅ /ha
 d) 20 kg P₂O₅ /ha
18. Botanical name of black gram is _____.
 a) *Vigna radiata* L.
 b) *Cajanus cajan* L.
 c) *Pennisetum glaucum*
 d) *Vigna mungo* (L.)
19. Pearl millet can be grown in _____ season.
 a) kharif
 b) Summer
 c) rabi
 d) a & b both
20. Green gram should be sown at a _____ depth.
 a) 2-3 cm
 b) 5-7 cm
 c) 10-12 cm
 d) 12-14 cm

Q.2 Do as Directed.

A. Define the following. (Any five)

1. Puddling 2. Critical stages 3. Ideotype 4. Rouging
 5. Field preparation 6. Water requirement 7. Thinning

(05)

B. Answer the following. (Any Five)

1. Give the reasons for low yield of crops
 2. Write down scientific name and family of the following crops
 a. Green gram b. Black gram c. Pearl millet d. Pigeon pea
 3. Write down BPH resistant varieties of rice
 4. Enlist Growth Stages of Maize Plant
 5. Climatic requirement for blackgram
 6. Differentiate: *Cajanus cajan* var. *Bicolour* Vs *Cajanus cajan* var. *flavus*
 7. Give reason. Summer pearl millet give more yield than monsoon crop

(05)

Q.3 Write short notes. (Any five)

1. Describe the rice varieties:
 Indicas Japonicas Javanics
 2. Advantages and disadvantages of transplanting.
 3. Economic importance of green gram.
 4. Chemical weed control for transplanted rice.
 5. Steps for increasing fertilizer use efficiency.
 5. Give detailed information about following fertilizers:
 1. BGA 2. Azolla

(10)

Q.4 Attempt any Three/Long Questions

1. Explain different types of maize?
 2. Chemical, physical and biological changes that occur during submergence and puddling in rice?
 3. Detailed crop cultivation practice for Rice ?
 4. Detailed crop cultivation practice for Maize.?

(15)