

PARUL UNIVERSITY
COLLEGE OF AGRICULTURE

B.Sc. (Hons.) Agriculture Winter 2022-23 Examination

Semester: 3**Date: 10/10/2022****Subject Code: 20101203****Time: 10.30 am to 1.00 pm****Subject Name: Crop Production Technology – I (Kharif crops)****Total Marks: 50****Instructions**

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

Q.1 Do as Directed.**(A) Fill in the blanks. (Each of 0.5 mark)****(05)**

- 1 The most favored crop for preservation in the form of silage is _____
- 2 The family of cotton is _____
- 3 The art of making cloth from cotton was developed in _____
- 4 The second most important Indian pulse crop is _____
- 5 The Indian Pulse Research Institute is located at _____
- 6 Pulse seeds should be inoculated with the culture of _____
- 7 The most important oilseed crop in India is _____
- 8 Cereals belongs to family _____
- 9 Pulses belongs to the family _____
- 10 The scientific name of black gram is _____

(B) Multiple choice type questions. (Each of 0.5 mark)**(10)**

- 1 Dapog method of raising rice nursery was introduced in India from
 - a) Phillipines
 - b) Japan
 - c) Nepal
 - d) USA
- 2 Which of the following is water loving crop?
 - a) Pearl millet
 - b) Groundnut
 - c) Sorghum
 - d) Paddy
- 3 Guj. Kodra 1 is the variety of
 - a) Proso millet
 - b) Great millet
 - c) Kodo millet
 - d) Pearl millet
- 4 Red gram is also known as
 - a) Green gram
 - b) Sorghum
 - c) Gram
 - d) Pigeon pea
- 5 The second name of urid bean is
 - a) Arhar
 - b) Green gram
 - c) Black gram
 - d) Soybean
- 6 Protein content in soybean seeds is
 - a) 40 %
 - b) 20 %
 - c) 10 %
 - d) 30 %
- 7 Oil content in soybean seeds is
 - a) 40 %
 - b) 20 %
 - c) 10 %
 - d) 30 %
- 8 National Research Centre for Groundnut (NRCG) is located at
 - a) Anand
 - b) S. K. Nagar
 - c) Junagadh
 - d) Navsari
- 9 The gynophore in ground nut is commonly referred as
 - a) Capsule
 - b) Pod
 - c) Peg
 - d) Branch
- 10 Castor belongs to family
 - a) Tiliaceae
 - b) Euphorbiaceae
 - c) Cruciferae
 - d) Leguminosae
- 11 Castor seeds has poisonous alkaloid
 - a) Oxalin
 - b) HCN
 - c) Saponin
 - d) Ricin

- 12 Cotton seeds has poisonous alkaloid
- a) Saponin
b) Oxalin
c) HCN
d) Gossypol
- 13 Cotton is known as
- a) Green gold
b) Pink gold
c) Yellow gold
d) White gold
- 14 Major constituents of cotton fiber is
- a) Fat
b) Cellulose
c) Lignin
d) Protein
- 15 Seed treatment is practiced to control
- a) Soil borne disease
b) Seed borne disease
c) Air borne disease
d) None of the above
- 16 The king of green manure crops is
- a) Sun hemp
b) Cowpea
c) Cluster bean
d) Dhaincha
- 17 Young plant of Sorghum contains poisonous substance
- a) Oxalin
b) HCN
c) Saponin
d) Ricin
- 18 Indian grass and fodder research institute is located at
- a) Delhi
b) Lucknow
c) Kanpur
d) Jhansi
- 19 African tall is a fodder purpose variety of
- a) Maize
b) Sorghum
c) Pearl millet
d) Cowpea
- 20 Napier grass is locally known as
- a) Marvel grass
b) Elephant grass
c) Bermuda grass
d) Anjan grass

Q.2 Do as Directed.

(A) Define the following. (Any five out of seven)

(05)

- 1 Agronomy
- 2 Seed
- 3 Cash crop
- 4 Green manuring
- 5 Thinning
- 6 Irrigation.
- 7 Sole cropping

(B) Answer the following. (Any five out of seven)

(05)

- 1 Enlist different methods of rice nursery preparation
- 2 Make a list of six different types of maize
- 3 What do you mean by the term “relay cropping”?
- 4 Explain the term “weed”
- 5 Write uses of pigeon pea in brief
- 6 What are maturity symptoms of maize
- 7 Write seed rate of (1) transplanted rice and (2) direct seeded rice

Q.3 Write short notes. (Any five out of six)

(10)

- 1 Benefits of green manuring
- 2 Golden rice
- 3 Climatic requirement of sorghum crop
- 4 Write the process of rhizobium biofertilizer seed treatment in pulses and give its benefits
- 5 Write the difference between pulses and legumes
- 6 Give economic importance of groundnut

Q.4 Long Questions/Example (Attempt any three out of four)

(15)

- 1 Differentiate direct seeded rice and transplanted rice
- 2 Give reasons for low productivity of pulse crops in India
- 3 Write in detail about cultivation practices of Rice
- 4 Write the importance of pulses