Seat No: _____   Enrolment No:_____

PARUL UNIVERSITY
COLLEGE OF AGRICULTURE
B.Sc. (Hons.)Agriculture March-2021-22 Examination

Semester: 3   **Date: 19/03/2022**
Subject Code: 20101203   **Time: 2:00pm to 4:30pm**
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 marks)   **(05)**
1. Full stand of SRI is _____.
2. Jagannath is a mutant variety of _____ crop.
3. Maize protein known as _____.
4. _____ is centre of origin of groundnut.
5. Finger millet also known as_____.
6. For balanced diet, daily _____ gm of pulses/capita is required.
7. "*Arachis*" meaning _____ and "*hypogea*" meaning _____.
8. _____ ranks first in the world, in respect of acreage and production of castor.
9. Main pearl millet research station located in _____.
10. Lemma and pelea together known as_____.

B. Multiple choice type questions. (Each of 0.5 mark)   **(10)**
1. Bajra is originated from _____.
   a) Africa   **c)** America
   b) India   **d)** Turkey
2. The recommended fertilizer dose of rice is _____ NPK kg/ha
   a) 80-40-00   **c)** 40-40-00
   b) 25-50-00   **d)** 120-60-40
3. fruit bearing branches in cotton are known as _____.
   a) Monopodial   **c)** Spadix
   b) Sympodial   **d)** All of the above
4. Biofertilizer *Azotobactor/Azosprillum* is used in the _____ group.
   a) Pulses   **c)** Oil Seed
   b) Cereals   **d)** Legumes
5. The diabatic patient should consume _____.
   a) Cheena   **c)** Vari
   b) Bavto   **d)** Rice
6. Jute is _____ crop.
   a) Oil Seed   **c)** Fibre
   b) Cereals   **d)** Pulses
7. The main disease of sesamum is _____.
   a) Stem rot   **c)** Red rot
   b) Ergot   **d)** Phyllody
8. Inflorescence of castor is known as_____.
   a) Tassel   **c)** Spike
   b) Pod   **d)** Receme
9. Thinning is the most important operation in _____ crop.
   a) Sesamum   **c)** Cotton
   b) Castor   **d)** Groundnut
10. Synonymous ofsorghum is _____.
    a) Pearl millet   **c)** Kodo millet
    b) Greatmillet   **d)** Hill millet
11. *Gossypium barbadense* L. is a scientific name of _____ crop.
    a)Cotton   **c)** Sorghum
    b) Jute   **d)** Sun hemp
12. The origin of maize is_____.
    a)India   **c)** USA
    b) Mexico   **d)** China

13. Pearl millet grain contains _____ % protein.
    a)11.6
    b) 7.2
    c) 4.4
    d) 16.3
14. what is seed rate of red gram for mix cropping?
    a)10-12 kg/ha
    b) 12-15 kg/ha
    c) 6-7 kg/ha
    d) 7-10 kg/ha
15. ICPH 87 is a variety of _____.
    a)Red gram
    b) Green gram
    c) Hybrid Napier
    d) Pearl millet
16. Soybean seed contains about _____ % oil and _____ % protein.
    a)20 and 40
    b) 25 and 50
    c) 40 and 20
    d) 25 and 35
17. Among the following which is first hybrid variety of rice?
    a)TN-1
    b) IR-8
    c) IR-1
    d) IR-28
18. Among the following which herbicide commonly use in pulses crop?
    a)Fluchloralin
    b) 2,4-D
    c) Atrazine
    d) Butachlor
19. Hybrid Napier belongs to family.
    a)Gramineae
    b) Euphorbiaceae
    c) Pedaliaceae
    d) Leguminoseae
20. HCNis related to _____ crop.
    a)Hybrid Napier
    b) Sorghum
    c) Cotton
    d) Castor

Q.2 Do as Directed. (05)
  A. Define the following. (Any five)
    1. Puddling
    2. Critical stages
    3. Ideotype
    4. Rouging
    5.Field preparation
    6. Water requirement
    7.Thinning
  B. Answer the following. (Any Five) (05)
    1. Write down the verities for following crops.
        1. Hybrid napier
        2. Soybean
        3. Pigeon pea
    2. Briefly explain the economic importance of Sesamum.
    3. Explain the acid delinting process in cotton.
    4. Expand the following acronyms:
        A) ICRISAT, B)NRCG, C)IGFRI D)AICCIP
    5. Write the scientific name of following crops:
        A) Cluster bean, B) Vari, C)Napier grass
    6. Differentiate Desi cotton vs. American cotton
    7. What is retting
Q.3 Write short notes. (Anyfive) (10)
    1. Write down the important hint/ practices for irrigated cotton.
    2. Differentiate legume and pulses.
    3. Explain the package of practices for ratoon sorghum.
    4. Summer pearl millet gives more yield than monsoon crop, why?
    5. Explain the reason for low productivity of pulses in India?
    6. Explain importance of forage crops.
Q.4 Attempt any Three/Long Questions/Example (15)
    1. Briefly explainthe Dapog method of rice seedlings?
    2. Explain the different types of maize.
    3. Explain rising of seedling for Vari crop.
    4. Explain Castor crop in following heads: a) climate requirement b) Soil requirement c) sowing time d)verities e) seed rate f)spacing g) nutrient management h) weed management i)yield