

PARUL UNIVERSITY
COLLEGE OF AGRICULTURE
B.Sc.(Hons.)Agriculture Winter 2019 - 20 Examination

Semester: 4
Subject Code: 20101252
Subject Name: Crop Production Thechnology-II (Rabi crops)

Date: 29/11/2019
Time: 2.00 pm to 4.30 pm
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. The most cultivated crop in India among cereals is _____.
2. Highest productivity of wheat is in _____ state of India.
3. CRI stage in wheat will start _____ DAS.
4. Centre of origin of barley is _____.
5. _____ variety of barley is suitable for malting.
6. Most critical stage for irrigation in chickpea is _____.
7. Common name of French bean is _____.
8. Refined oil of mustard is called _____.
9. In genus Helianthus, Helio means _____ and anthus means _____.
10. The final effluent obtained in the preparation of sugar by repeated crystallization is _____.

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

1. _____ leads as highest productivity of wheat in the world.

A. India	C. China
B. USA	D. None of these
2. According to vavilov the origin of Durum wheat is _____.

A. Abyssinia	C. Africa
B. Asia	D. All of the above
3. Emmer wheat is _____.

A. <i>Triticum durum</i>	C. <i>Triticum aestivum</i>
B. <i>Triticum dicocum</i>	D. <i>Triticum spherococum</i>
4. Wheat is _____ plant.

A. Short day	C. Day neutral
B. Long day	D. None of above
5. The inflorescence of barley is called _____.

A. Ear	C. Spike
B. Panicle	D. Pod
6. Salt tolerant variety of barley is _____.

A. Amber	C. RD 137
B. Neelam	D. All of the above
7. The leading producer of chickpea is _____.

A. India	C. Bangladesh
B. Burma	D. China
8. Nipping in Chick pea is a process of _____.

A. To reduce plant height	C. To protect plants against lodging
B. To enlarge branching	D. None of these
9. Lentil belongs to _____ family.

A. Linaceae	C. Poceae
B. Tiliaceae	D. leguminoceae
10. Pea should be treated with rhizobium inoculation of _____.

A. R. japonicum	C. R. leguminosarum
B. R. glycine	D. All of the above

11. Rapeseed and mustard oils have _____ & _____ anti nutritional factors.
 - A. Erucic acid
 - B. Glucosinolate
 - C. Linolenic acid
 - D. A & B both
12. _____ is a variety of toria.
 - A. Parbati
 - B. Pusa jaikisan
 - C. Kranti
 - D. Jagganath
13. Oil content in sunflower seed is _____ %.
 - A. 20-25%
 - B. 40-45%
 - C. 48-53%
 - D. 60-65%
14. The precipitated impurities contained in the cane juice, after removal by filtration is called _____.
 - A. Pressmud
 - B. Bagasse
 - C. Molasses
 - D. All of the above
15. Bagasse is used for production of _____.
 - A. Electricity
 - B. Paper
 - C. Methane
 - D. All of the above
16. Productivity of sugarcane is high in which of the following state
 - A. Maharastra
 - B. Tamil Nadu
 - C. Punjab
 - D. None of the above
17. Flowering in sugarcane is called _____.
 - A. Arrowing
 - B. Sprouting
 - C. Tillering
 - D. All of the above
18. The most common type of flue-cured tobacco is _____.
 - A. Calcutta
 - B. Vilayati
 - C. Virginia
 - D. All of the above
19. _____ tobacco is also known as 'bright tobacco'.
 - A. Air-cured
 - B. Flue-curd
 - C. Fire-curd
 - D. Bidi tobacco
20. Seed rate for tobacco is _____.
 - A. 1 kg/ha
 - B. 1 g/ha
 - C. 2 g/ha
 - D. 2 kg/ha

Q.2 Do as Directed.

(05)

A. Define the following. (Any five)

1. Desuckering
2. Cash crops
3. Topping
4. Earthing up
5. Thinning
6. Planking
7. Vapsa condition

B Answer the following. (Any Five)

(05)

1. Give reason: Why nitrogenous fertilizers should be apply in split dose
2. Differentiate: Rape seed v/s Mustard
3. Differentiate: Desi type tobacco v/s Vilayati or culcutti tobacco
4. Give reason: Rape seed and mustard have higher requirement of sulphur.
5. Give reason: Brassicas var. which contain higher erucic acid can be used as lubricating oil & fossil fuel.
6. Why cereals are called staple crops?
7. Economic importance of sunflower.

Q.3 Write short notes. (Any five)

(10)

1. Enlist byproducts of sugarcane and describe any one.
2. Enlist the cultivated and wild species of sugarcane.
3. Give family and botanical name for following crops
 - A. Sugarcane
 - B. Tobacco
 - C. Wheat
 - D. French bean
4. Describe commonly cultivated wheat species in India.
5. Which points must be taken into account at the time of selection of ideal cane set.
6. Economic importance of barley

Q.4 Attempt any Three/Long Questions/Example

(15)

1. Enlist curing methods of tobacco and describe flue cured tobacco
2. Describe the crop production technology for chickpea
3. Enlist the cultural operations in sugarcane and describe detrashing
4. Describe the crop production technology for Fieldpea