

# Agriculture and Forestry University

## Rampur, Chitwan

Exam Roll No: .....

**1. Which of the following legume crop fixes the nitrogen most?**

- a. Soybean      b. Faba bean
- c. Alfa alfa      d. Peanut

**2. Planting distance of Kabuli type chickpea is:**

- a. 45 \* 45 cm      b. 60 \* 20 cm
- c. 5 \* 5 cm      d. 10 \* 10 cm

**3. Scientific name of Chickpea is:**

- a. *Cicer arietinum*      b. *Cicer kabulinum*
- c. *Cajanus cajan*      d. *Dolicus uniflorus*

**4. Cropping intensity of groundnut/blackgram – sugarcane is:**

- a. 200 %      b. 300 %
- c. 150 %      d. 250 %

**5. Which of the following have maximum seed rate?**

- a. Chickpea      b. Pigeon pea
- c. Lentil      d. All have same seed rate

**6. Which of the following affects the seed rate?**

- a. Soil type      b. Climate
- c. Plant spacing      d. All of the above

**7. Which of the following nutrient is most important for legume crops?**

- a. Nitrogen      b. Phosphorus
- c. Potassium      d. Calcium

**8. Which of the following fertilizer is best suited to soybean?**

- a. Potassium sulphate      b. Phosphate
- c. Ammonium sulphate      d. All of the above

**9. Suitable climate for lentil:**

- a. Warm and humid      b. Hot and dry
- c. Temperate      d. Cool and dry

**10. Pigeon pea is best cultivated in:**

- a. Temperate      b. Arctic regions
- c. Tropical and sub-tropical      d. Desert

**11. Seed rate of lentil:**

- a. 10 – 20 kg/ha
- b. 20 – 25 kg/ha
- c. 30 – 40 kg/ha
- d. 40 – 60 kg/ha

**12. Weeds in lentil is controlled by:**

- a. Alachlor
- b. Fluchloralin
- c. Both of these
- d. None

**13. Soil suitable for legume crop production:**

- a. Sandy soil
- b. Loamy soil
- c. Clay soil
- d. None

**14. Factor affecting production of legume:**

- a. Irrigation
- b. Seed rate
- c. Planting distance
- d. All of the above

**15. Critical stage of mustard is:**

- a. Sowing
- b. Flowering
- c. Pod filling and flowering
- d. Pod maturation

**16. Type of inflorescence in lentil:**

- a. Raceme
- b. Cymose
- c. Panicle
- d. Spike

**17. Which of the following herbicide is used to control Broad leaf weeds?**

- a. 2,4-D
- b. 2,4-DB
- c. Alachlor
- d. Fluchloralin

**18. Soybean is called a wonder crop because it is:**

- a. An excellent protein source
- b. An excellent oilseed crop
- c. High yield potential
- d. Both a and b

**19. Soybean seeds contain:**

- a. 20 % oil and 20 % protein
- b. 40 % oil and 40 % protein
- c. 40 % oil and 20 % protein
- d. 20 % oil and 40 % protein

**20. Black seeded soybean varieties are:**

- a. Rich in protein but low in oil content
- b. Rich in oil but low in protein content
- c. Both high protein and oil content
- d. Both low protein and oil content

Agriculture and Forestry University  
Department of Agronomy, 2080  
Rampur, Chitwan, (Practical exam)

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**AGR 203, 2(1+1) Grain Legume and Oilseed Production**

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**Attempt all questions**

**Time: 50 min.**

1. Describe the formation of root nodules in legumes crops also write the. Write the types of priming. ....2+1 = 3 marks
2. Wheat and lentil crops are going to be intercropped in one hectare of land at the ratio of 2:1. if the recommended seed rate of the crops are 80 kg/ha for wheat and 25 kg/ha for lentil respectively and germination capacity of both crop seeds are 85% , find out the amount of seed required for intercropping of these crops? .....3 marks
3. Calculate the seed rate of green gram for sowing 1.5 ha of crop from the following: 3 marks
  - Spacing = 40 cm x 10 cm
  - Germination = 85%
  - Purity = 90%
  - 100-seed weight = 15g
  - No. of damaged seeds by birds, which are to be replaced 12 seeds/m<sup>2</sup>
4. Write about general morphology of legume. Also enlist the differences of rapeseed and mustard with figures .....3 Marks