

**Hemchandracharya North Gujarat University**  
**Community College**  
**Advanced Diploma in Agriculture and Soil sciences**  
**Sem II End Term Examination, May, 2017**  
**Subject: AS 204 (Agronomy of Field crops I (Rabi crops))**

**Time: 2 hrs**

**Date: 04/05/2017**

**Maximum marks: 40**

**Q.1 Answer all questions. Each question carries 1 mark.**

**(10\*1=10 Marks)**

1. The inflorescence of barley is called \_\_\_\_\_  
a. Ear                      b. panicle                      c. spike      d. Pod
- Origin of sunflower is \_\_\_\_\_  
a. India                      b. Argentina                      c. South west America      d. africa
2. Oil content of sunflower is \_\_\_\_\_  
a. 38-40 %                      b. 30-32 %                      c. 36-37 %                      d. 40-45 %
3. Rate of sulphur recommended for rapeseed-mustard is \_\_\_\_\_ kg /ha  
a. 10-20                      b. 20-40                      c. 30-40      d. 40-50
4. Pea crop needs \_\_\_\_\_  
a. Cold & dry climatè      b. Hot & humid                      c. dry & hot                      d. Cool & humid
5. Weed in wheat can be controlled by applying  
a. 2,4-D                      b. Fluchloralin                      c. both a and b                      d. stomp
6. Most critical stage of irrigation for chick pea is \_\_\_\_\_  
a. Tillering      b. CRI                      c. Pre flowering      d. jointing
7. Salt tolerant variety of barley  
a. Amber                      b. Neelam                      c. RD137                      d. Ratna
8. Scientific name of sunflower is \_\_\_\_\_  
a. Helianthus annuus      b. Carthamus tinctorious      c. Sesamum indicum                      d. pesum sativum
9. Duration of CRI stage in wheat is \_\_\_\_\_ DAS  
a. 45-60                      b. 20-25                      c. 30-45      d. 45-50
10. Duration of boot leaf stage in wheat is \_\_\_\_\_ DAS  
a. 45-60                      b. 70-75                      c. 30-45      d. 20-25

**Q. 2 Answer any 4 questions. Each question carries 5 marks.**

**(4\*5=20 Marks)**

**(SHORT QUESTIONS)**

1. Explain types of Peas varieties and explain importance of pulses
2. Write sowing time, climatic requirement, spacing and economic importance of barley
3. Package of practice: sunflower
4. Differentiate the following (A) *Nicotiana tabucum* and *Nicotiana rustica* (B) Desi gram and Kabuli gram
5. Low cost technologies for increasing productivity of wheat.

**Q-3. Answer any 1 questions. Each question carries 10 marks.**

**(1\*10=10)**

1. Write package of practices: chickpea and write reasons for low productivity of pulses in inda
2. Package of practice of wheat.  
( Botanical name, family, area and distribution, economic importance, soil requirement, , field preparation, time and method of sowing, seed treatment, spacing, seed rate, manures and fertilizer, irrigation, weeding and interculturing, harvesting, varieties, yield)