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AR-2018  
FIRST YEAR EXAMINATION-JULY 2019  
AG-112

B.Sc (Ag)

**AGRICULTURAL HERITAGE**

Time : 2 Hours

Maximum : 50 Marks

(Answer **all** questions of Section – A)

**SECTION – A**

1. Fill in the blanks from multiple choice answers

**8x0.5=4.0**

- a. In Ramayana, Sri Ram advised \_\_\_\_\_ to take special care and attention to the farmers and then only prosperity and happiness of the people could be ensured.  
i. Laxman                      ii. Bharata                      iii. Hanuman                      iv. Satrugna
- b. \_\_\_\_\_ is regarded as the highest authority of agriculture.  
i. Ramayana                      ii. Mahabharat                      iii. Krishi Parasara                      iv. Arthashastra
- c. \_\_\_\_\_ is a major problem associated with green revolution.  
i. Improved productivity                      ii. Food grain price stability                      iii. Increased employment                      iv. Increased regional disparities
- d. Mustard is having antifungal activity due to presence of \_\_\_\_\_.  
i. Glucosinolates                      ii. Allyl isothiocyanate                      iii. Sinalbin                      iv. Erucic acid
- e. Crude extract of \_\_\_\_\_ and cow urine appears effective against stem borer and leaf folder in basmati rice.  
i. *Calotropis gigantea*                      ii. *Datura alba*                      iii. *Curcuma domestica*                      iv. *Vitex negundo*
- f. The word 'agriculture' comes from \_\_\_\_\_ language.  
i. Greek                      ii. Latin                      iii. Persian                      iv. Roman
- g. Which book stated that crops grown without manure will not give yield.  
i. Agnipurana                      ii. Krishi Parashara                      iii. Brhat Samhita                      iv. Kural
- h. Which of the following two days should be avoided for sowing and transplanting according to Sage Parashar.  
i. Tuesday & Thursday                      ii. Tuesday & Saturday                      iii. Thursday & Saturday                      iv. Thursday & Monday

2. Match column 'A' (ancient methods of water harvesting) with column 'B'

**(6 x 0.5 = 3.0)**

**Column-A**

- a. Katas
- b. Bamboo drip
- c. Eri
- d. Kere
- e. Khatri
- f. Jabo

**Column-B**

- i. Karnataka
- ii. Himachal Pradesh
- iii. Odisha
- iv. Nagaland
- v. Tamilnadu
- vi. Meghalaya

3. Fill in the blanks

**10x0.5=5.0**

- a. In ancient India, the cultivators belonging to the \_\_\_\_\_ caste had expertise in agriculture.
- b. Globally Important Agricultural Heritage Systems (GIAHS) are regions of outstanding \_\_\_\_\_.
- c. The author of ancient literature 'Vrikshayurveda' is \_\_\_\_\_.



- d. \_\_\_\_\_ revolution brought major change in the techniques of food production that saved man from mere hunting and gathering of wild berries and roots.
- e. The Chalcolithic revolution began in \_\_\_\_\_ in the fourth millennium BC.
- f. Scientific knowledge on soils during British Colonial rule was initiated in 1806 by \_\_\_\_\_.
- g. \_\_\_\_\_ is considered to be the oldest name of rice
- h. The use of Bordeaux mixture (Copper sulphate and lime) was first documented in India in \_\_\_\_\_.
- i. Indian Council of Agricultural Research was established in the year \_\_\_\_\_.
- j. \_\_\_\_\_ is regarded as the father of Yoga.
4. Write True / False in the bracket against each of the following sentences **10x0.5=5.0**
- a. The famous book 'Mahabhasya' was written by Sage 'Patanjali'. ( )
- b. Chakrapani Mishra has written the book 'Lokopakaram'. ( )
- c. Bronze Age Civilization was between 3250-2750 BC. ( )
- d. Dog was the first domesticated animal. ( )
- e. Dr. Norman E. Borlaug is regarded as the father of green revolution. ( )
- f. The beginning of agriculture was in Mesolithic age. ( )
- g. In order to overcome the declining productivity barrier there is a need to herald a rainbow revolution. ( )
- h. Samuel Hahnemann is considered as the father of homoeopathy. ( )
- i. Certified seeds are having the highest quality standard in the seed chain. ( )
- j. According to government of India, 28% of farmers are living under below poverty line. ( )
5. Express the followings in one word. **6x0.5=3.0**
- a. Waste/ barren land as per Amarakosha
- b. Marshy land as per Surapala
- c. Land fit for rice cultivation according to Kashyapa
- d. Formulation of milk, curd, ghee, dung and urine for plant nutrition
- e. Ancient practice of preparing liquid manure
- f. Wooden vessel used to measure grains roughly equivalent to 7 lb and 12 oz (about 3.5 kg)

### **SECTION – B**

(Attempt any **five** questions. Each question carries equal marks) 5x6=30

6. Write a critical note on chronological evolution of agriculture development in India.
7. Briefly describe India's locally developed farming techniques and their place on the world heritage map.
8. How soil productivity was maintained in ancient period. Discuss with suitable examples.
9. Write a critical note on heritage of crop management.
10. Enumerate some classical Indigenous Technical knowledge adopted in pest management.
11. Briefly describe some selected medical plants of India and their uses.