

KATHMANDU UNIVERSITY
End Semester Examination
May/June, 2022

Mark scored:

Level : B.Sc.

Course : AGRS 116

Year : I

Semester : II

Exam Roll No. :

Time: 30 mins.

F. M. : 10

Registration No.:

Date :

SECTION "A"

[10Q × 0.5 = 5 marks]

Encircle the most appropriate option.

- Cereals and Pseudocereals belong to the same family but different Genus.
 - True
 - False
- Suggest suitable machine for threshing of maize kernel.
 - Paddle Thresher
 - Reaper
 - Brush Cutter
 - Corn Sheller
- Rice is cultivated in all the districts of Nepal except:
 - Jumla and Humla
 - Panchthar and Ilam
 - Dolpa and Mugu
 - Manang and Mustang
- The depression on the top of the kernel having yellow or white color is found in one of the following types of maize.
 - Flint corn
 - Dent corn
 - Pop corn
 - Sweet corn
- Maize is Photosynthetically efficient crop because it is a:
 - C3 plant
 - C4 Plant
 - CAM plant
 - None of these
- What is the correct plant population per hectare from the spacing of 75cm × 25cm in maize?
 - 53,333
 - 66,666
 - 83,333
 - 1,11,111
- If R1 represents Silking stage in maize, then what does VT stands for?
 - Blister stage
 - Dough stage
 - Tasseling stage
 - Emergence stage
- Which among the following is the variety of Barley released for high hills of Nepal?
 - Solu Uwa
 - Okhle 1
 - Manakamana 9
 - Borlaug 2020
- Which among the following is the most critical stage of irrigation in wheat?
 - Booting stage
 - CRI stage
 - Heading stage
 - Milking stage

10. As a thumb rule, harvesting in Buckwheat is suitable at one of the following stages of crop.
- | | |
|--------------------------------|--------------------------------|
| a. 55% of the seeds turn brown | c. 75% of the seeds turn brown |
| b. 42% of the seeds turn brown | d. 65% of the seeds turn brown |

SECTION "B"

[10Q × 0.5 = 5 marks]

Fill in the blanks.

11. Cereals are rich inbut comparatively low in protein and deficient in Calcium and Vitamin A.
12. Common buckwheat (*Fagopyrum esculentum*) is a.....pollinated while Tartary buckwheat (*Fagopyrum tartaricum*) is a.....pollinated crop.
13. The reason rice is adapted to an aquatic environment is that it consists of..... a spongy tissue filled with air spaces.
14. Baby corn production requireswhich is done immediately when male inflorescence starts emerging from the flag leaf.
15.is the method of suppressing weed due to release of potent secondary metabolites by another plant or microbe living in its vicinity.
16. The system of wheat cultivation in which seed is sown without any tillage operation is known as
17.is one of the nutrients required for pollen viability in Wheat.
18. Vijay is the variety ofrecommended for Terai, Tar and Lower valley upto 500 masl.
19. The scientific name of Proso millet is
20. A man made cereal obtained by crossing of Wheat and Rye is called

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SECTION "C"
[6Q × 4 = 24 marks]
(Short answer questions)

Attempt *ANY SIX* questions.

1. How are cereal crops important for food, feed and religious value?
2. Write the importance of Buckwheat for human health and environment benefits.
3. Describe fertilizer management of wheat including rate and timing of application for irrigated and rainfed condition.
4. What are the advantages and challenges of Direct Seeded Rice?
5. What are the features of maize production agro-ecology of mid hills wet summer and Terai & Inner Terai in Nepal?
6. Describe about finger millet crop with its nutritional advantages.
7. Write the name of some machines and their use in cereal crop production.

SECTION "D"
[2Q × 8 = 16 marks]
(Long answer questions)

Attempt *ANY TWO* questions.

8. How would you grow maize with irrigation facility in terai during winter season? Describe major agronomic practices.
9. What are the major weeds of rice? Describe various methods of weed management in rice.
10. What are the major agronomic practices of growing barley in irrigated condition?

