

Weed management

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2015 Model Paper

ID. No.

SEMESTER FINAL EXAMINATION 2014-15
VEER CHANDRA SINGH GARHWALI COLLEGE OF HORTICULTURE
UTTARAKHAND UNIVERSITY OF HORTICULTURE & FORESTRY, BHARSAR-246 123
PAURI GARHWAL, UTTARAKHAND

Programme: B.Sc. (Hons.) Horticulture (2nd Year)
Course Title: Weed Management in Horticultural Crops (HPH-205)
Credit Hours: 2 (1+1)
Max. Marks: 50.00 Marks

Roll No.
Date of Examination:
Time: 10:00am - 01:00pm (3 Hrs.)
Semester: Ist 2014-15

- Note: (i) All the questions are compulsory, cutting & over writing is not allowed.
(ii) The question paper consists of two parts, Part-I (objective) of 20.00 marks and the Part-II (subjective) of 30.00 marks.
(iii) Write the answer of Part-I on the question paper itself.

Question No. 1: Fill in the blanks.

PART-I, Objective (Max. Marks: 20.00)

(0.50 x 10.0=5.0 Marks)

- 1) Weeds compete with crop plants more severely in earlystages.
- 2) Flooding is an efficient method of weed control in case ofweeds.
- 3) Weed free seed is a weed control.
- 4)are pathogens cultured artificially and made available in sprayable formulation.
- 5) Directorate of Weed Science Research is situated at
- 6) and used for making ropes and thatch boards.
- 7) first coined the term weed in 1731 in the book "Horse Hoeing Husbandry".
- 8) A crop plant in another crop field which is not desirous is called
- 9) ISWS is an abbreviation of.....
- 10) Trade name of herbicide is the name offered by the

Question No. 2: State whether the following statements True (T)/False (F)? (0.50 x 10.0=5.0 Marks)

- 1) Eradication is an ideal weed control and very easily achieved in large area.
- 2) Burning is usually practiced in dense planted field.
- 3) Pre-planting and pre-emergence herbicides are generally applied on plant foliage.
- 4) *Parthenium hysterophorus* is not a problematic weed of India.
- 5) Jungali gulab/ wild rose is an annual weed.
- 6) According to growth characteristics *Chenopodium album* is an erect type weed.
- 7) Glyphosate is a selective herbicide.
- 8) On the total annual loss of agricultural produce from various pests in India, weeds roughly account 45%.
- 9) Isoguard is a trade name of Pendimethalin.
- 10) There is often more than one formulation of a particular herbicide.

Question No. 3: Tick (✓) the correct answer.

(0.50 x 10.0=5.0 Marks)

- 1) Weeds seeds/ fruits produced by mother plant are dispersed off inways.
a) One b) Two c) Three d) Four
- 2) A chemical use for killing or inhibiting the growth of unwanted plants is known as.....
a) Fungicide b) Insecticide c) Bio-herbicide d) None of these
- 3) 2, 4-D herbicide comes under the group of.....
a) Chlorophenoxy compound b) Triazine c) Bipyrilidium d) Sulphonyl urea
- 4) Fluchloralin is aherbicide.
a) Pre-emergence b) Post-emergence c) Pre-plant applied d) None of these
- 5) *Cyperus rotundus* is a botanical name of
a) Canada thistle b) Motha c) Baru grass d) Kansani
- 6) used as leafy vegetable.
a) *Rumex hastatus* b) *Trifolium repens* c) *Circtium arvense* d) *Amaranthus viridis*
- 7) is a local name of *Avena fatua*.
a) Canada thistle b) Tinpatia c) Jangli Jai d) None of these
- 8) The..... classification is most important and useful in weed control.
a) Morphological b) Growth characteristic c) Life cycle d) Plant family
- 9) Which of the following is not a perennial weed?
a) *Cynodon dactylon* b) *Cyperus rotundus* c) *Eicchornia crassipes* d) *Vicia sativa*.
- 10) Any approved herbicide is known by name (s).
a) One b) Two c) Three d) Four

Question No. 4: Match the following.

(0.50 x 10.0=5.0 Marks)

- A. Common Name of weed
- a. Littleseed canarygrass
 - b. Cocklebur
 - c. Bansoya
 - d. Spiderwort/Kena
 - e. Jhonsongrass

- B. Botanical Name of Weed
- a. *Vicia sativa*
 - b. *Anagallis arvensis*
 - c. *Echinochloa colona*
 - d. *Solanum nigrum*
 - e. *Circtium arvense*

- Botanical Name
- a. *Xanthium strumarium*
 - b. *Phalaris minor*
 - c. *Commelina benghalensis*
 - d. *Fumaria parviflora*
 - e. *Sorghum halepense*

- Family
- a. Primulaceae
 - b. Poaceae
 - c. Solanaceae
 - d. Asteraceae
 - e. Fabaceae

PART II, Subjective (Max. Marks: 30.00)

Question No. 5: Differentiate among the following (Attempt any three). (2.50 x 3.0=7.5 Marks)

- a) Selective herbicide and non-selective herbicide
- b) Contact herbicide and translocated herbicide
- c) Pappus and comose
- d) Pre-emergence herbicide and post-emergence herbicide
- e) Annual and perennial weed

Question No. 6: Write short notes on any three. (2.50 x 3.0=7.5 Marks)

- a) Allelopathy
- b) Crop-weed competition in relation to light and water
- c) Beneficial effect of weeds
- d) Integrated weed management
- e) Biological weed control
- f) Adjuvant

Question No. 7: Long type question (Attempt any three). (5.0 x 3.0=15.0 Marks)

- 1) What do you mean by weed? Describe the harmful effect of weeds.
- 2) Define the weed biology. Describe the characteristics of weeds.
- 3) Define the herbicide. Write its advantage and limitation of herbicide usage in India.
- 4) Describe the physical method of weed control.
- 5) What is a cultural method of weed control? Explain it.
- 6) What do you mean by aquatic weeds? Describe the problem caused by aquatic weeds and their management.