

VCE-211 (Temperate  
Vegetables) = (1+1)

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Model Paper 2015 with 2<sup>nd</sup>  
hourly

Name: .....

I. D. No. ....

Part-II (Subjective)-10 Marks

**Note:** Be brief in each question. Your answer should not exceed 2-3 lines.

- Q 1. Name the two books along with their authors pertaining to HPV-200. (0.5)
- Q 2. Write down one example each of pole type and bush type of French bean varieties. (0.5)
- Q 3. Enlist the physiological disorders of French bean along with their cause. (0.5)
- Q 4. Give the classification of Indian bean on the basis of life cycle. (0.5)
- Q 5. Write down two photoinensitive varieties of cowpea. (0.5)
- Q 6. Give the classification of cluster bean on the basis of growth habit. (0.5)
- Q 7. What are the critical stages of irrigation in beans? (0.5)
- Q 8. Write down the two major causes for bitterness in cucumber fruits. (0.5)
- Q 9. Name the growth regulator used to induce maleness and femaleness in monoecious cucurbits. (0.5)
- Q 10. Write down the name of two species of grain type of amaranthus. (0.5)
- Q 11. Give the classification of French bean on the basis of fibres. (0.5)
- Q 12. Write down the botanical names of Chhoti Chaulai and Badi Chaulai. (0.5)
- Q 13. Mention the seed rate and spacing for pole type and bush type of French beans. (0.5)
- Q 14. What are the appropriate maturity indices to harvest muskmelon? (0.5)
- Q 15. Mention the specific climatic requirements for high quality melons production. (0.5)
- Q 16. Briefly explain the nutritive value of amaranthus. (0.5)
- Q 17. What is the appropriate time of sowing of beans in the plains and hills of India? (0.5)
- Q 18. Explain in brief about weed management in beans. (0.5)
- Q 19. Mention the different edible parts of winged bean. (0.5)
- Q 20. Write down the centre of origin of muskmelon and amaranthus. (0.5)



UTTARAKHAND UNIVERSITY OF HORTICULTURE AND FORESTRY,  
BHARSAR, PAURI GARHWAL, UTTARAKAND-246 123

Model Question Paper (B.Sc. Second Year 1<sup>st</sup> Semester)  
HPV-203 (Temperate Vegetables)

Max. Marks: 50

Max. Time: 3 hrs.

PART-I (Objective-20 Marks)

Max. Time: 1<sup>1</sup>/<sub>2</sub> hr.

Q1 Fill in the blanks: (10 x 0.5=5)

- 1) All the cole crops have been originated from a common ancestor known as.....
- 2) First indigenous variety of leek developed in India is.....
- 3) A white crystalline substance..... is extracted from asparagus.
- 4) ..... is the edible part in rhubarb.
- 5) The probable ancestor of lettuce is.....
- 6) Small heads formed in the leaf axils of broccoli are known as.....
- 7) Thinning is an essential operation in..... vegetable crop.
- 8) Anti-carcinogenic property in broccoli is due to the presence of.....
- 9) Rat tail radish is botanically known as.....
- 10) Pungency in garlic is due to the presence of a compound.....

Q2 Write down whether the statement is true or false (T/F): (10 x 0.5=5)

- 1) 'Broad bean' is known as multipurpose bean (.....)
- 2) Topping is practised for mechanical Harvesting in Brussels Sprouts (.....)
- 3) 'Globe artichoke' is rich source of insulin levulose (.....)
- 4) Cavity spot in carrot is caused due to the deficiency of calcium (.....)
- 5) Jobnar Green, a palak variety has been developed through spontaneous mutations (.....)
- 6) Cauliflower juice is used as remedy against poisonous mushroom (.....)
- 7) Desired dehydration ratio in onion is 10:1 (.....)
- 8) Palak Kachan is the yellow coloured variety of broccoli (.....)
- 9) Isolation distance of 1600 m is kept for foundation seed production in cole crops (.....)
- 10) Akshik is a physiological disorder of carrot which is caused due to deficiency of boron in the soil (.....)



**Q3 Choose the correct answer. (10 x 0.5=5)**

- 1) 'King of North' is the variety of,
  - a) Cabbage
  - b) Brussels Sprouts
  - c) Knol-Khol
  - d) Cauliflower
- 2) Dark red colour of beetroot is due the presence of pigment,
  - a) b-cyanins
  - b) b-xanthins
  - c) Anthocyanin
  - d) Quercetin
- 3) 'Snowball' is a variety of,
  - a) Broccoli
  - b) Cauliflower
  - c) Turnip
  - d) Carrot
- 4) 'Anti-fungal property in onion' is due to the presence of,
  - a) Allyl propyl di-sulphide
  - b) Catechol
  - c) Quercetin
  - d) Anthocyanain
- 5) Onion variety suitable for dehydration is,
  - a) Pusa White Round
  - b) Pusa Red
  - c) Agrifound Red
  - d) Arka Bindu
- 6) Little marvel is a popular variety of,
  - a) Tomato
  - b) Cabbage
  - c) Pea
  - d) Broadbean
- 7) Which of the following is a newly released variety of Broadbean,
  - a) Pusa Navanijoti
  - b) Pusa Udit
  - c) Agrifound Red
  - d) Kufri Jayoti
- 8) Recommended seed rate per hectare in Knol-Khol is,
  - a) 50-100 g
  - b) 400-500 g
  - c) 800-1000 g
  - d) 4-5 kg
- 9) Shelling percentage in pea varies from,
  - a) 60-75%
  - b) 55-60%
  - c) 80-90%
  - d) 15-30%
- 10) Edible part in leak is
  - a) Blanched stem
  - b) Leaves
  - c) Both a & b
  - d) Bulb

**Q4 Match the followings: (10 x 0.5=5)**

1	Pusa Snowball K-1	A	kn-11
2	Carrot	B	Polycrossed
3	Snowball cauliflower	C	Self branching type
4	Beetroot	D	Leafy vegetable
5	Antichoke	E	Knoll-khol
6	Radiesh	F	Tip burn
7	Broccoli	G	Knoll-khol
8	Leek	H	Pea
9	Asparagus	I	kn-11
10	Broad Bean	J	Disease resistance



Name \_\_\_\_\_

Roll No. \_\_\_\_\_

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**Model Question Paper (B.Sc. Second Year 1<sup>st</sup> Semester)  
HPV-203 (Temperate Vegetables)**

**Max. Marks: 50**

**Max. Time: 3 hrs.**

**PART-II (Subjective-30 Marks)**

**Max. Time: 2<sup>1/2</sup> hrs.**

*Note: Attempt any six questions. Question number 1 is compulsory.*

- Q1 Write down the production technology of Cauliflower or Peas or Carrot under the following heads: (5 x 1=5)
- Soil and climate
  - Commercial varieties/hybrids
  - Sowing/transplanting time
  - Seed rate and spacing
  - Harvesting and yield
- Q2 Discuss about importance and scope of temperate vegetables in human nutrition? (5)
- Q3 Describe in detail about important physiological disorders of cauliflower? (5)
- Q4 Briefly explain the different methods of seed production in cabbage? (5)
- Q5 Write short notes on (any five) (5 x 1=5)
- Blanching in leek
  - Nagaheri U triangle of cultivated brassicas
  - Forcing technique in rhubarb
  - Premature bolting in cabbage
  - Maturity groups in cauliflower
  - Round the year cultivation of radish
  - Ideal Characteristics of onion for dehydration
- Q6 Differentiate between (any five) (5 x 1=5)
- Indian and European type of cauliflower
  - Smooth and curly type of spinach
  - European and Asiatic carrots
  - Garden pea and Field pea
  - Palak and Spinach
  - Pak-choi and Pat-choi
  - Rubi and Waxifonion
- Q7 Give the suitable reasons (any five) (5 x 1=5)
- Thinning is an essential cultural operation in beetroot
  - Seed production of temperate vegetables is possible only in hilly regions
  - Blanching is an essential operation practised in early varieties of cauliflower
  - Leafy vegetables should not be harvested in morning hours
  - Cultivation of cole crops should be avoided in highly acidic soils
  - Seed rate of spinach is relatively higher than the spinach beet
  - Application of undecomposed farm yard manure should be avoided in carrot