SEMESTER FINAL EXAMINATION 2015-16 COLLEGE OF HORTICULTURE VCSG Uttarakhand University of Horticulture & Forestry, Bharsar-246 123 Pauri Garhwal, Uttarakhand

Programme: B.Sc. (Hons.) Horticulture Roll No	13014(anil Rana
Course Title:JRF Date of	Examination:
Credit Hours: Time: 0	9:30am - 12:30pm(3Hrs.)
Max. Marks: 150.00 Marks 20)15-16

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-1 on the question paper itself.
- 1. Deficiency of proteins results in a. Beriberi b. Kwashiorkar c. Rickets d. Anaemia
- 2. Night blindness is due to the deficiency of a. Vitamin a b. Vitamin b c. Vitamin c d. Vitamin d.
- 3. Which of these mineral elements present larger quantities in vegetables compare to food materials. Ca, Fe and P b. K, n and p c. Mg, s and an d. N, k and mn.
- 4. Lack of vitamin c in our body leads to a. Scurvy b. Ulcer c. Rickets d. Indigestion
- 5. The average productivity of vegetables in India a. 15T/ha b. 25T/ha c. 10T/ha d. 20 t/ha
- 6. As per ICMR, what is the percapita requirement of vegetables per day? a. 300g b. 500g c. 200g d. 400 g
- 7. In the world, indicate the position of our country in respect of area, production of vegetables a. Ist b. II nd c. IIIrd d. IVth
- 8. ------ is also known as anti sterility vitamin a. Vitamin C b. Vitamin E c. Vitamin K d. Vitamin B
- 9. Pea is the richest source of a. Carbohydrate b. Protein c. Vitamin d. Fat
- 10. ------ is the richest source of vitamin A a. Carrot b. Tomato c. Potato d. Sweet potato
- 11. The AICVIP was started in a. 1968 b. 1988 c. 1986 d. 1970-71
- 12. Out of the total cultivated area in India, vegetable crops occupy------- a. 0.5 per cent b. 2.2 per cent c. 5 per cent d. None of the above
- 13. Which one of the following vegetables is the richest source of protein? a. Pea b. Fenugreek c. Pointed gourd d. Cucumber
- 14. Yellow coloured vegetables are rich source of ------- a. Vitamin E b. Vitamin C c. Vitamin A d. Vitamin B
- 15. A stem vegetable is a. Carrot b. Knol-khol c. Sweet potato d. Radish
- 16. All Cole crops belongs to the family------ a. Cucurbitaceae b. Cruciferae c. Umbelliferae d. None of the above
- 17. AVRDC is situated in a. Tokyo b. Taiwan c. Tasmania d. Turkmenistan
- 18. Which of the following is a biennial vegetable? a. Muskmelon b. Tomato c. Onion d. Chilli
- 19. Which of the following is fruit vegetable crop? a. Sweet potato b. Okra c. Potato d. Spinach
- 20. Which one of the following soil is best for vegetable cultivation? a. Sandy b. Sandy loam c. Clay loam d. Clav
- 21. Which one of the following vegetable produces maximum seeds per fruit? a. Tomato b. Brinjal c. Chilli d. Potato
 - Floating garden ii). Hydroponics. iii). Kitchen garden iv). None of the above
 - _gardening is to Produce vegetables for local market. i) Market gardening ii) Truck 23. gardening iii) Vegetable forcing iii) Vegetable processing

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- gardening is to Produce vegetables out of their normal season. i) Market gardening ii) 24. Truck gardening iii) Vegetable forcing iii) Vegetable processing 25. ____ gardening is to Produce vegetables for supply of processing factories. i) Market gardening ii) Truck gardening iii) Vegetable forcing iii) Vegetable processing 26. Which is the vegetable suitable for dehydration? i) Onion ii) Turnip iii) Carrot iii) Chillies 27. Which is the vegetable suitable for canning? i) Asparagus ii) Cauliflower iii) potato iii) Cucumber 28. Which is the vegetable suitable for Freezing? i) Asparagus ii) Cauliflower iii) potato iii) Cucumber 29. What is the colour of the used for identification of breeder seeds? i) Blue ii). White iii) Red iii) Golden yellow 30. Floating gardens are find in i) Karnataka ii).Kerala iii) Himachal Pradesh iii) Jammu & Kashmir 31. The centre of origin of tomato is ------ a. Peru and Mexico b. Mediterranean c. China d. India **32**. The genus to which tomato belongs is ------ a. Lycopersicon b. Capsicum c. Solanum d. Physalis 33. Tomato variety CO-3 was evolved by ------ a. X rays b. Gamma rays c. EMS d. MMS 34. Tomato variety Pusa Lal Meeruti was evolved by a. X rays b. Gamma rays c. EMS d. MMS 35. ------ is considered as poor man's orange in India, while love of apple in India a. Capsicum b. Brinjal c. Tomato d. Water melon 36. Aroma of green leaf of tomato is due to a. Sirigrini b. Glycoisocinate c. Capsaicin d. None of the above 37. Tomato fruit aroma is due to a. Sulfonium b. Chlorophyll c. Carotenoid d. Polyphenols 38. The fruits of tomato is a. Pome b. Pepo c. Drupe d. Berry 39. Tomato produces ----flowers in cluster on the stem a. Proandry b. Protogynous c. Cleistogamous d. Hercogammy 40. Sioux and Marglobe varieties of tomato are introduced from a. Asia b. USA c. Africa d. Europe 41. Severianin is a -----variety of tomato a. Highly seeded b. Parthenocarpic c Parthenogenesis d. None of the above 42. Pusa Divya hybrid, Punjab Upma and Pusa Upkar are the latest varieties of a. Brinjal b. Chilli c. Capsicum d. Tomato 43. Solanum lycopersicum is a new botanical name of a. Tomato b. Brinjal c. Chilli d. None of the above 44. For distant transportation, tomato fruits are picked at a. Immature green stage b. mature green stage c. turning stage d. Red ripe stage 45. For processing tomato the fruits are picked at ------ a. Immature stage b. Pink stage c. hard ripe
 - 45. For processing tomato the fruits are picked at ----- a. Immature stage b. Pink stage c. hard ripe stage d. Over ripe stage
 - 46. In tomato, for fruit setting in adverse condition spray a. 2,4-d b. PCPA c. Ethrel d. Cycoel
 - 47. Lycopene development in tomato is adversely affected when temperature is above ------ a. 30° C b. 25° C c. 20° C d. 10° C
 - 48. The best soil reaction pH for tomato cultivation is ------ a. Below 5 b. 8.0 and above c. 6.0-7.0 d. 7.0-8.0
 - 49. Tomato seed sufficient to raise crop of one hectare area is ------ a. 500-800g b. 400-500g c. 200-300g d. 800-900g
 - 50. The red colour in tomato is due to pigment a. Anthocyanin b. Quercetin c. Lycopene d. Xanthophyll
 - 51. The chemical used for hardening of seedlings in the nursery is a. Cycocel b. MH c. TIBA d. Hcl
 - 52. ______ is used to induce fruit set. a. 2,4-D b. IBA c.PCPA d. All of these
 - 53. Long dry spell followed by heavy irrigation causes a. Blossom end rot b. sunscald c.Silvering d. Cracking
 - 54. Blossom end rot in tomato is caused by the deficiency of ------ a. Calcium b. Magnesium c. Boron d. None of the above
 - **55**. Puffy fruit in tomato is caused by a. Viral attack b. Physiological disorder c. Bacterial attack d. None of the above
 - 56. The physiological disorder caused by boron deficiency in tomato is ------ a. Puffiness b. Cracking
 - 57. Blossom end rot d. Silvering

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- 58. In tomato, locular Jelly may not fill the locular cavity which may lead to ------ a. Cracking b. Puffiness c. Cat facing d. Sun scald
- 59. Boron deficiency in tomato causing in a. Browning b. Cat facing c. Puffiness d. Fruit cracking
- 60. Distortion of blossom end of the fruit leads to formation of ridges, furrows and indentations which is known as a. Browning b. Cat facing c. Puffiness d. Fruit cracking
- 61. Gold fleck is due to deposition of a. Calcium oxalate b. MgSO₄ c. Boron d. Zinc
- 62. Delayed ripening of fruits overcome by application of a. Borax b ZnSO₄ c. NAA d. Ethrel
- 63. Fruit cracking occurs when the soil is deficient in a. Boron b Zn c. Mg d. Calcium
- 64. Silvering disorder may be caused due to the exposure of plants to a. Low temperature b High temperature c. High humidity d. Low humidity
- 65. .Bitter taste in brinjal fruit is due to ------ a. Anti Vitamin E factor b. CN glycosides c. Solasodine d. Trypsin inhibitors
- 66. Brinjal belongs to the species a. Khasianum b. Sisymbrifolium c. Melongena d. None of the above
- 67. Brinjal is a native of ----- a. Africa b. South America c. India d. Korea
- 68. Brinjal variety MDV 1 was evolved by ------ a. X-rays b. Gamma rays c. EMS d. MMS
- 69. Flower in brinjal may be a. Long styled b. Medium styled c. Pseudo –short-styled d. All of the above
- 70. Flowers in Brinjal are a. Hermaphrodite b. Staminate c. Pistillate d. Solitary and hermaphrodite
- 71. ----- is also known as Egg plant a. Tomato b. Brinjal c. Chilli d. Okra
- 72. Brinjal borne ------ types of flower on the basis of length of style a. 4 b. 5 c. 3 d. 6
- 73. -----colour Brinjal is good for diabetic plant a. Purple b. Green c. White d. Black
- 74. Basic chromosome number in Brinjal is ------ a. 13 b. 8 c. 10 d. 12
- 75. ----- is variety of Brinjal resistant to phomopsis blight a. Pusa purple long b. Pusa bhairav c. Pant Rituraj d. Pant Samarat
- 76. Optimum temperature requirement for successful production of brinjal should be a. 15 -200 C b.21- 270 C c. 30-350 C d. 10-150 C
- 77. Ideal soil PH for growth and development of brinjal is a. 5-5.5 b. 5.5-6 c. 6-6.5 d. 6.5-7
- 78. Seed requirement for raising one hectare crop of brinjal a. 250-375g b. 400-500g c. 500-750g d. 750-1000g
- 79. Brinjal seedlings are transplanted at a spacing of a. 60x30-45 b. 75-90x60-70cm c. 50-60x50-60cm d. None of the above
- 80. Average yield of brinjal is ______ t/ha in F1 hybrids. a. 10-20 b. 20-30 c. 40-80 d. 50-60
- 81. Chemical used for controlling root knot nematodes in brinjal is a. Aldrin b. Nemagon c. Chloropyriphos d. None of the above
- 82. Spraying of ______ controls poor fruit set in brinjal. a. GA3 b. MH c. CCC d. 2,4-D
- 83. _____ method is followed for extraction of seeds a. Fermentation b.Acid c. Alkali d. None of these
- 84. Little leaf of Brinjal is due to a. Fungus b. Bacteria c. Mycoplasma d. Root knot nematode
- 85. California wonder is an important variety of ------ a. Hot pepper b. Sweet pepper c. Black pepper d. None of the above
- 86. The chillies are rich in vitamin a. A b. C c. A&C d. None
- 87. The green chillies contain ------which has medicinal value a. Capsicin b. Resin c. Coumarin d. Rutin
- 88. The highest production of chillies in ------ a. Maharashtra b. Tamil Nadu c. Andhra Pradesh d. Arunachal Pradesh
- 89. The largest area in chillies is in ------ a. Maharashtra b. Tamil Nadu c. Andhra Pradesh d. Andaman

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- 90. The pungency in chillies is due to ------ a. Cucurbitaein b. Resins c. Coumarin d. Capsicin
- 91. The red colour in fruits at the ripening stage in chillies is due to the pigment ------ a. Capsanthin b. Quercetin c. Anthocyanin d. Catechol
- 92. The chilli has originated from a. India b. Brazil c. Tropical America d. China
- 93. ----- is botanically known as *C. fruitescens* a. Black pepper b. sweet pepper c. Hot pepper d. None of the above
- 94. MDU-1 is a variety developed througha. Pure line selection b. Mutation breeding c. Mass selection
- 95. ----- variety of chilli is cross of NP46A x Pure red a. Pant C-1 b. Pusa Jwala c. Pusa Sadabahar d. None of the above
- 96. Bharat is the first hybrid of capsicum released by a. MAHYCO b. IAHS c. Sugrow d. Namdhari
- 97. Blossom end rot in chilli is due to ------ a. Fungal disease b. viral disease c. Non parasitic cause d. None of the above
- 98. Bud, blossom and fruit drop in chilli, in general is due to a. Deficiency of nitrogen b. humid climate c. Unfavourable temperature and water supply d. None of the above
- 99. About _____gm of chilli seeds are needed for planting of one hectare area. a. 500 b. 1000 c. 1250 d. 1500
- 100. Chillies can be grown from sea level to an altitude of ------ a. 1000m b. 2000m c. 3000m d. 4000m
- 101. CCC induces ______ in chilli. a. Vegetative growth b. Number of branches c. Fruit set d. Fruit development.
- 102. Fruit drop in chilli is prevented by application of a. NAA b. Ethrel c. CCC d. GA
- 103. Capsicum is generally ______ pollinated crop a. Self b. Cross c. often cross d. none of the above
- 104. The most suitable time of transplanting sweet pepper is a. March April b. Mid February c. April May d. None of the above
- 105. About _____ tons of dry chillies are obtained from one hectare irrigated area. a. 1.0 b. 1.5-2.5 c. 4-5 d.7-8
- 106. The usual spacing followed for transplanting capsicum seedlings in northern India is ------ a. 60x30b. 75x30cm c. 45x45cm d. None of the above
- 107. Bhendi variety tolerant to salinity is ------ a. Kalyanapur green b. Type -3 c. Pusa Sawani d. Pusa Dwarf
- 108. Arka Abhay is a variety of a. Brinjal b. Chilli c. Tomato d. Bhendi
- 109. Mucilage, a sticky substance in okra, is generally extracted from ------ a. Flowers b. Buds c. Stem and root d. Leaves
- 110. Okra is ------ a. Self pollinated b. Cross Pollinated c. often cross pollinated d. Both b and c.
- 111. Original home of okra is ------ a. India b. Africa c. America d. None of the above
- **112.** Variety of okra resistant to yellow vein mosaic virus is ------ a. Pusa Makhamali b. Pusa sawani c. Punjab No. 8 d. None of the above
- 113. Varsha upahar is a variety of ------ a. Okra b. Cabbage c. Chilli d. Cowpea
- 114. ----- belongs to family Malvaceae a. Tomato b. Chilli c. French bean d. Okra
- 115. Okra fruits are excellent source of a. Calcium b. Magnesium c. Manganese d. Iodine
- 116. ----variety of okra is cross of pusa Makhmali x IC 1542 a. Gujarat bhendi-1 b. Pusa Makhmali c. Pusa sawami d. Arka abhay
- 117. Cultivated okra is ------ in Nature a. Polyploidy b. Tetraploidy c. Aneuploidy d. All of the above
- **118**. First picking in okra can be done after a. 30-35 days b. **45-50** days c. 60-65 days d. None of the above
- 119. Okra crop is sown at a spacing of a. 75x45 cm b. 60x45cm c. 45x75 cm d. None of the above
- 120. Okra seeds fail to germinate below -----0C a. 5 b. 10 c. 15 d. 20
- 121. Optimum pH range for better growth of okra is a. 4.5-5.5 b. 6.0-6.8 c. 7.5-8.5 d. None of the above
- 122. Optimum temperature for okra seeds germination is ------0C a. 20 b. 30 c. 15 d. 35

- 123. The most serious disease of okra is ------ a. Yellow vein mosaic b. Powdery mildew c. Root rot d. None of above
- 124. The seed rat per hectare of okra for rainy season is ------kg a. 8-10 b. 10-12 c. 12-14 d. 14-16
- 125. The seed rate per hectare of okra for spring summer and winter crop is ------kg a. 5-10 b. 10-15 c. 15-20 d. 20-25
- 126. Post harvest treatment with ______ enhances the shelf life of okra fruits. a. GA b. Ethophan c. Cycocel d. NAA
- **127**. Average seed yield of okra is about _____ q /ha. a. 5-8 b. **10-15t/h** c. 20-25 d. All of the above
- 128. ----- is basically known as amaranths tricolour. a. Amaranths, b. Spinach beet, c. Spinach, d. None of the above.
- 129. Amaranths hypochondrias species of amaranths is of having. a. Long day, b. Short day, c. Day natural, d. Both 'a' and 'b'
- 130. Amaranths is rich in a. Vit. K, b. Vit-D, c. Vit- A, d. Vit-B.
- 131. Amaranths originated from a. Brazil, b. India, c. Europe, d. None of the above.
- 132. Basic chromosome number in amaranths is a. 20, b. 34, c. 17, d. 16.
- 133. Amaranths belongs to family. a. Amarly Diaceae, b. Amaranthaceous, c. Lilaceae, d. Araceae.
- 134. Amaranths is a ------ crop. a. Self pollinated, b. Cross pollinated, c. Often cross pollinated, d. Heraphordate.
- 135. ----- is a most serioud disease of amaranths a. Black spot, b. While rust, c. Sun Scarching, d. Leaf curl.
- 136. Green yield of amaranths is about-----q/ha a. 40-60, b. 30-40, c. 60-80, d. None of the above
- 137. ----- a grain type amaranths is widely grown in Gujarat and Maharashtra. a. Jobner Green, b. Rajgarh, c. Pusa Harit, d. Pant Haritima.
- 138. Seeds of amaranths are deride up to------ percent moisture and stored in moisture proof polyethylene bags. a. 3-4, b.5-6, c.1-3, d.8-10.
- 139. ----- is popularly known as malbar night shade, poi or Indian spinach. a. Methi, b. Basella, c. Spinach, d. Spinach belt.
- 140. Basella is commonly grown in a. North India, b. South India, c. Western India, d. Central India.
- 141. Botanical name of ------ is Basella Alba. a. Palak, b. Bari Chauli, c. Choti Chauli, d. Basella.
- 142. The origin place of Basella is a. Europe, b. China, c. America, d. India.
- 143. Basic chromosome number in Basella is a. 10, b. 20, c. 12, d. 14.
- 144. Basella is a ------ plant in nature. a. Erect, b. Spreading c. Semi- erect, d. Climbing.
- 145. Basella sowing is usually done in South India during. a. June-July, b. August-September, c. October-November, d. December-January.
- 146. In order to raise one-hectare crop of Basella, about----- kg seed per hectare will be required a. 4-5, b. 5-10, c. 12-15, d. 45-60,
- 147. Basella leaves become ready for harvesting ------ days after sowing the seeds. a. 3-40, b.20-30, c.12-50, d.60-75.
- 148. Basella belongs to family------ a. Alliaceous, b. Amaranthaceous, c. Basellacea, d. Chemopodiiacea.
- 149. The total yield of Basella is ------ quintal per hectare. a. 5-60, b.60-70, c. 100-150, d.150-200.
- 150. Family of sweat potato convolvulaaece

.....All the best By Anil rana.....

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