

Supervisor's Signature :		Marks Obtained:
Centre :	Uni. Seat No :	Reg. No.:

AGRICULTURAL UNIVERSITIES OF GUJARAT

- | | |
|---|--|
| 1. Anand Agril. University, Anand | 3. Navsari Agril. University, Navsari |
| 2. Junagadh Agril. University, Junagadh | 4. S.D. Agril. University, Sardarkrushinagar |

FIRST SEMESTER B.Sc. (HONS.) HORTICULTURE (SUPPLE.) END EXAMINATION FLR 1.1 : ORNAMENTAL HORTICULTURE (2+1) PART - A (OBJECTIVE)

Date : 27/06/2017	Time : 14:00 to 16:30
Day : Tuesday	Marks : 40.00

Q.1 Tick mark (✓) most appropriate option from the following.

1. Spores are used to propagate.....

A. Mosses	B. Ferns
C. Asparagus	D. Bromeliads
2. The quickest method of lawn planting is

A. Spreading	B. Turfing
C. Seed	D. Dibbling
3. _____ are continuous beds of more length than width containing plants of one kind only.

A. Flower beds	B. Carpet beds
C. Borders	D. Shrubbery
4. The success of any water garden is to ensure adequate supply of ____

A. Planting	B. Material
C. Soil	D. Water
5. Crescent flower arrangement means

A. Full moon	B. Full sun
C. Half moon	D. Half sun
6. The site of marsh/bog garden should

A. Above roof	B. High elevated
C. Low lying	D. None of above
7. Large and dark colored flowers are usually in the _____ of the flower arrangement.

A. Balance scale	B. Harmony
C. Focal point	D. Flower arrangement
8. Which of the following flower arrangement have 'S' shape curve ?

A. Radianting	B. Horizontal
C. Crescent	D. Hogarthian
9. Botanical name of jasud is

A. <i>Hibiscus mutabilis</i>	B. <i>Hibicus syriacus</i>
C. <i>Hibiscus rosa sinensis</i>	D. <i>Malvabiscus arboreus</i>
10. Which of the following is a summer season annual

A. Kochia	B. Petunia
C. Pancy	D. Phlox

11. _____ are small gardens established around village temple.
A. Nandanvanam B. Brindavanam
C. Asokavanam D. Rajavanam
12. Which of the following is not a garden plant component ?
A. Path B. Hedge
C. Lawn D. Edge
13. The flower colour of Bottle brush tree is
A. Red B. Yellow
C. White D. Blue
14. How many terraces are generally found in mughal Garden ?
A. 7-8 B. 6-7
C. 7-12 D. 5-6
15. Which of the following has Weeping canopy ?
A. Rain tree B. Neem
C. Bottle brush D. Ashoka
16. Which of the following plant produce flower throughout the year ?
A. Periwinkle B. Croton
C. Eranthemum D. All of above
17. Which of the following is a rainy season annual ?
A. Kochia B. Hollyhock
C. Balsam D. Phlox
18. The flower colour of peltophorum is
A. Red B. Yellow
C. White D. Blue
19. Which of following is most suitable for hanging baskets?
A. Portulaca B. Cosmos
C. Rudbeckia D. Aster
20. A garden created in a glass bottle or jar is known as
A. Vertical garden B. Terrarium
C. Terrace garden D. Roof garden
21. Which of the following tree is associated with Sita ?
A. *Saraca indica* B. *Ficus bengalensis*
C. *Mangifera indica* D. *Delonix regia*
22. _____ is yellow flower tree
A. Jacaranda B. Bottle brush
C. Amaltas D. Asoka tree
23. Three dimension like object is known _____
A. Vista B. Prospect
C. Rhythm D. Perspective
24. Which is the Botanical name of pipal
A. *Delonix regia* B. *Saraca indica*
C. *Ficus religiosa* D. *Ficus bengalensis*
25. _____ are key Features of Mughal garden
A. Terraces B. Baradari
C. Running water D. All these above

26. _____ is the principle of relative dimension
 A. Harmony B. Space
 C. Scale D. Restrain
27. Which of the following climber has scented flowers ?
 A. Antigonon B. Chemeli
 C. Passion flower D. Allamanda
28. The cultivation of trees for their aesthetic or recreational value is known as
 A. Horticulture B. Arboriculture
 C. Floriculture D. Olericulture
29. Brindavan Gardens situated at _____
 A. Lahore B. Mysore
 C. Coonoor D. Bangalore
30. _____ is given French garden concepts
 A. M.S. Ranthawa B. William Robinson
 C. Le Notre D. T. K Bose
31. is one of the few tropical tree that is accepted as "true" bonsai
 A. Ficus benjamina B. Dracaena marginata
 C. Ficus nerifolia D. Boxwood
32. An example of foliage shrub is
 A. Acalypha B. Mogra
 C. Rose D. Vinca rosea
33. Which of the following shrub is not having fragrant flowers
 A. Rose B. Ixora
 C. Jasmine D. Rat-rani
34. Which of the following foliage plant is used for indoor decoration
 A. Gaillardia B. Aglaonema
 C. Night queen D. Nerium
35. Ikebana the flower arrangement techniques developed in
 A. Japan B. America
 C. India D. Pakistan
36. _____ is measured as cyclic repetition of an object, effect, event
 A. Harmony B. Prospect
 C. Rhythm D. Perspective
37. Which of the following is a informal type of garden
 A. Mughal B. French
 C. Japanese D. Persian
38. A group of shrubs planted together is known as
 A. Topiary B. Pergola
 C. Shrubbery D. Rockery
39. Which of following Ficus species is grown for religious purpose?
 A. infectoria B. retusa
 C. religiosa D. benjamina
40. Which of the following plants are used for pergola
 A. Shrubs B. Trees
 C. Climber D. Lawn

55. The revolutionary concept of 'wild garden' was expounded by _____
 A. David robinson B William Robinson
 C. Robin Devidson D Carles Tucker
56. Which of the following is not a garden adornments?
 A. Seats B Sun dial
 C. Bird bath D Rockery
57. A series of arches over a considerable length is called as
 A. Pergola B Arbour
 C. Trellises D Island
58. *Polyalthia longifolia* is a botanical name of
 A. Banyan tree B Bottle brush
 C. Pipal D Ashok
59. The 'Pinjore' garden was established by
 A. Shah Jahan B Fadai Khan
 C. Akbar D Jahangir
60. Which of the following grass is mostly used for making lawn on play ground?
 A. Paspalum B Manila grass
 C. Korean grass D Doob grass
61. Which of the following is the important part of English Garden ?
 A. Lawn B Rockery
 C. Herbaceous border D All of the above
62. The spines of cactus are actually modified
 A. Roots B Stems
 C. Leaves D None of these
63. The 'Lalbagh' garden is located at
 A. Darjeeling B Kodaikanal
 C. Ooty D Banglore
64. Which of the following flower arrangement have 'S' shape curve ?
 A. Radianting B Horizontal
 C. Crescent D Hogarthian
65. Japanese garden is a _____ type of a garden.
 A. Formal B. Wild garden
 C. Informal D. None of above
66. _____ garden was the best garden created by Shah Jahan in Lahore
 A. Taj mahal B. Red fort
 C. Shalimar D. Pinjore garden
67. Pinjore garden is created by
 A. Fadai khan B. Babur
 C. Shahjahan D. Akabar
68. Lord Buddha was believed to born under which of the following tree ?
 A. Ashoka B. Mango
 C. Peepal D. Banyan
69. _____ flower is mostly used as Dry flower
 A. Rose B. Gerbera
 C. Gomphrena D. Offices time

70. _____ is a symbol of source of life in Mughal garden.
 A. Lawn B. Water
 C. Flower D. Tree
71. Key feature of Italian garden is
 A. Flowerbeds B. Lawn
 C. Marble pillars D. Lanterns
72. The plant which is grown in the centre of the lawn is known as
 A. Individual tree B. Specimen tree
 C. Garden tree D. Special tree
73. Nahars (flowing canals) are the key feature of
 A. Persian garden B. Mughal garden
 C. Both of above D. None of above
74. Baradari is a canopied building with _____ open doors.
 A. Four B. Eight
 C. Twelve D. Sixteen
75. The most common method for irrigating lawn is
 A. Sprinklers B. Flooding
 C. Drip D. Foggers
76. *Delonix regia* is commonly known as
 A. Red Gulmohar B. Yellow Gulmohar
 C. Gulmohar D. Any of above.
77. Which of the following flowering shrub is used for oil extraction ?
 A. Hibiscus B. Tecoma
 C. Ixora D. Rose
78. Mogra is propagated by
 A. Suckers B. Cutting
 C. Bulb D. Corm
79. Which of the following flower used for making garland ?
 A. Gerbera B. Carnation
 C. Marigold D. Gladiolus
80. *Plumeria alba* is a botanical name of
 A. Gulmohar B. Champa
 C. Ashok D. Banyan tree

University Seat No. : _____ Center: _____

Registration No. : _____ Sign. of Supervisor _____

AGRICULTURAL UNIVERSITIES OF GUJARAT

1.	Anand Agril. University, Anand	3.	Navsari Agril. University, Navsari
2.	Junagadh Agril. University, Junagadh	4.	S.D. Agril. University, S.K.Nagar
Third Semester End examination of B.Sc.(Hons.) Horticulture (Supplementary) June- 2017			
Part-A : Objective			
Course No. : FLR.3.2		Title of Course : Commercial Floriculture (2+1)	
Date : 28-06-2017		Time : 9.30 to 10.15	Marks: 40
		Total Marks: 40	
		Marks Obtained: <input type="text"/>	

Q.1: Tick mark (✓) most appropriate option from the following

- Carnation family belongs to.....
 - Compositae
 - Oleraceae
 - Caryophyllaceae
 - Asteraceae
- Maximum consumption of cut roses is during which of the following event?
 - Easter
 - Valentine day
 - Mother's day
 - X-mas day
- Which of the following is not used for preserving flowers?
 - Sugar
 - polyols
 - KCL
 - H₂SO₄
- Heart rot disease is mostly found in.....
 - Rose
 - Carnation
 - Gerbera
 - Orchid
- Which of the type of carnation is grown on large scale in greenhouse?
 - Marguerite
 - Perpetual
 - Marmaison
 - Border
- Which of the following is known as Sword lily
 - Irish
 - Gladiolus
 - Crocus
 - Bird of paradise
- Per capita consumption of cut flower is the highest in which country
 - India
 - USA
 - Switzerland
 - Germany
- Gladiolus is derived from
 - Latin
 - Spain
 - Arabic
 - Japanese
- Maximum area in our country is in which flower crop?
 - Jasmine
 - Tuberose
 - Marigold
 - Crossandra
- The following variety of gladiolus was developed by IARI, New Delhi
 - Suvanarekha
 - Laxmanrekha
 - Agnirekha
 - Rajatrekha

11. French marigold is ...
 - a. Diploid
 - b. Tetraploid
 - c. Triploid
 - d. Aneuploid
12. The largest producers of cut flower in the world is.....
 - a. USA
 - b. Colombia
 - c. Israel
 - d. Netherlands
13. Which of the following is the national flower of Mexico?
 - a. China aster
 - b. Dahlia
 - c. Tuberose
 - d. Gerbera
14. Which pigment is extracted from marigold?
 - a. Carotenoid
 - b. Chlorophyll
 - c. Xanthophyll
 - d. None of these
15. Gladiolus takes.....days to produce spikes
 - a. 50-100
 - b. 60-120
 - c. 30-50
 - d. 20-50
16. The centre of origin for Bird of Paradise is....
 - a. Mexico
 - b. Africa
 - c. India
 - d. China
17. Wintering is special horticultural operations inflowers
 - a. Jasmine
 - B. Rose
 - c. Carnation
 - D. Gerbera
18. Which of the following is considered mostly as cut flower?
 - a. Gladiolus
 - b. Chrysanthemum
 - c. Jasmine
 - d. Marigold
19. Following is the physiological disorder in carnation
 - a. Calyx splitting
 - b. Calyx burning
 - c. Calyx fading
 - d. None of these
20. Essential oil can be extracted from which of the following flower?
 - a. Chrysanthemum
 - b. China Aster
 - c. Tuberose
 - d. Gerbera
21. The gerbera is commonly known as
 - a. Indian daisy
 - b. African daisy
 - c. European daisy
 - d. None of these
22. Head quarter of NHB is located at....
 - a. Gurgaon, HR
 - b. Shimla, HP
 - c. Bangalore, KA
 - d. Pune, MS
23. Gladiolus has diploid chromosome number is.....
 - a. 60
 - b. 40
 - c. 30
 - d. 20
24. The leading state for Cut flower production in India is....
 - a. Tamil Nadu
 - b. Punjab
 - c. Karnataka
 - d. Maharashtra
25. Suvasini is a cultivar of tuberose released by....
 - a. IIHR
 - b. NBRI
 - c. IARI
 - d. IHBT
26. The leading exporter of flowers in the world is....
 - a. India
 - b. America
 - c. England
 - d. Netherlands

- 27 National flower of Japan is....
 a. Rose
 c. Lotus
 b. Marigold
 d. Chrysanthemum
- 28is an important operation in Rose
 a. Bending
 c. Pinching
 b. Deleafing
 d. Pruning
- 29 Fruit of rose is known as....
 a. Nut
 c. Drupe
 b. Berry
 d. Hip
- 30 Rose is commercially propagated by....
 a. 'T' Budding
 c. Seed
 b. Suckers
 d. Layering
- 31 Lily is propagated by
 a. Sucker
 c. Bulb
 b. Seed
 d. Tissue culture
- 32 Queen Elizabeth is common cultivar of....
 a. Chrysanthemum
 c. Gerbera
 b. Rose
 d. Gaillardia
- 33 Potted gerbera is also called as.....
 a. African daisy
 c. Indian daisy
 b. Samurai
 d. European daisy
- 34 Gaillardia is also known as....
 a. Blanket flower
 c. Samurai
 b. Water lily
 d. Queen of East
- 35 The origin of Gladiolus is....
 a. China
 c. Mexico
 b. Africa
 d. South America
- 36 Family of Dahalia is....
 a. Compositae
 c. Rosaceae
 b. Asteraceae
 d. Combrtaceae
- 37 Nishigandha / Rajnigandha is a local name of....
 a. Orchid
 c. Tuberose
 b. Gerbera
 d. Carnation
- 38 'Kamini' is a variety of....
 a. Marigold
 c. Rose
 b. Tuberose
 d. China aster
- 39 Rose hip is a good source of....
 a. Vitamin-A
 c. Vitamin-C
 b. Vitamin-B
 d. Vitamin-E
- 40 The botanical name of African marigold is....
 a. *Tagetes patula*
 c. *T. Tenuifolia*
 b. *T. erecta*
 d. *T. lucida*
- 41 Tuberose is propagated by....
 a. Cutting
 c. Seed
 b. Grafting
 d. Bulb
- 42 Nilima is variety of...
 a. Rose
 c. Chrysanthemum
 b. Gerbera
 d. Carnation

- 43 The ideal stage of harvesting Carnation for distant market is
a. Paint brush stage b. Before colour showing
c. After colour showing d. All of above
- 44 Priyadarshini are varieties of...
a. Jasmine b. Rose
c. Marigold d. Gladiolus
- 45 LUX is a unit to measure....
a. Temperature b. Light
c. Humidity d. Air speed
- 46 8-HQC and STS are examples of...
a. Floral preservatives b. Fertilizers
c. Growth regulators d. Weedicide
- 47 Which gas is used in CA storage of flowers.....
a. Nitrogen b. Sulphur
c. CO₂ d. Helium
- 48 The treatment given after harvesting of flowers to remove field heat is....
a. Pulsing b. Washing
c. Pre-cooling d. Preservation
- 49 The flower known as 'Queen of East' is....
a. Rose b. Gladiolus
c. Gaillardia d. Chrysanthemum
- 50 Tuberose is a best example of....
a. Shrub b. Annual
c. Climber d. Bulb
- 51 The best time of pruning roses in North Indian plains is....
a. October-November b. November-December
c. June-July d. September-October
- 52 Sleepiness is associated with.....
a. Rose b. Carnation
c. Gerbera d. Chrysanthemum
- 53 'Gulkand' is prepared by mixing rose petals and sugar in ratio of....
a. 1:1 b. 1:2
c. 1:3 d. 2:1
- 54 Which one of following is used for decorating hairs.....
a. Rose b. Crossandra
c. Tuberose d. Jasmine
- 55 The National Research Centre for orchid is located at.....
a. Orissa b. Sikkim
c. Haryana d. Punjab
- 56 Most widely cultivated tuberose varieties are....
a. Double flower b. Single flower
c. Semi double d. Multiple
- 57 Chrysanthemum is classified as....
a. Short day plant b. Long day plant
c. Day neutral d. None of these
- 58 Basic (x) chromosome number of roses is....
a. 10 b. 8
c. 12 d. 7

- 59 Banjaran cultivar of roses belongs tocategory
 a. Hybrid teas b. Polyantha
 c. Floribunda d. Tea
- 60 The 'Queen of bulbous plant' is....
 a. Tuberose b. Gladiolus
 c. Narcissus d. Dafodill
- 61 Tuberose is considered as a....
 a. Annual plant b. Biennial plant
 c. Perennial plant d. None of these
- 62 The family of gladiolus is.....
 a. Caryophyllaceae b. Musaceae
 c. Asteraceae d. Iridaceae
- 63 The essential oil of rose is extracted by....
 a. Solvent extraction b. Steam distillation
 c. Steam and water distillation d. None of these
- 64 Canna is propagated by...
 a. Bulb b. Rhizome
 c. Corm d. None of these
- 65types of greenhouse structure is most suitable to hilly areas
 a. Quonset b. Glass
 c. Tunnel d. Gable
- 66 King of flower.....
 a. Rose b. Dhalia
 c. Gerbera d. Chrysanthemum
- 67 Queen of flower is
 a. Gladiolus b. Chrysanthemum
 c. Rose d. None of these
- 68 Cool Orchids is.....
 a. Vanda b. Cattleya
 c. Cymbidium d. None of these
- 69 Roses are harvested when buds show.....colour
 a. Full b. Half
 c. No d. At any stage
- 70long day annual
 a. Dhalia b. Tulip
 c. Chrysanthemum d. None of these
- 71 Dhalia is propagated by.....
 a. Corm b. Bulb
 c. Tuber d. Tissue culture
- 72 Following percentage of shade level is ideal for healthy growth of Anthurium
 a. 75% b. < 75%
 c. 80% d. >80%
- 73 *R. indica* var. *odorata* in rose is extensively used as a.....
 a. Root stock b. Scion
 c. Graft d. None of these
- 74 In homes, which of the following is used to increase vase life?
 a. Sugar b. Oil
 c. Salt d. Glucose

- 75 The post harvest artificial coloration in some cut flower is known as...
- a. Tinting technique
 - b. Pulsing technique
 - c. Conditioning technique
 - d. None of these
- 76 Following crop has colourful modified leaf called spathe.....
- a. Christmas plant
 - b. Anthurium
 - c. Gladiolus
 - d. None of these
- 77 Bouquets are presented for.....
- a. Birthday
 - b. Welcoming a guest
 - c. Departed soul
 - d. Marriage function
- 78 Co-1 Pitchi variety is released from...
- a. TNAU
 - b. Lucknow
 - c. Kerala
 - d. Punjab
- 79 In cut Roses minimum vase life should bedays
- a. 12
 - b. 5
 - c. 10
 - d. 15
- 80 Topple disorder in gladiolus is because of..... deficiency?
- a. Boron
 - b. Potassium
 - c. Nitrogen
 - d. Calcium

*** X ***

AGRICULTURAL UNIVERSITIES OF GUJARAT

- | | |
|---|---------------------------------------|
| 1. Anand Agril. University, Anand | 3. Navsari Agril. University, Navsari |
| 2. Junagadh Agril. University, Junagadh | 4. S.D. Agril. University, S.K. Nagar |

Third Semester End examination of B.Sc.(Hons.) Horticulture (Supplementary) June- 2017

Part-B : Subjective

Course No. : FLR.3.2

Title of Course : Commercial Floriculture (2+1)

Date : 28-06-2017

Time : 10.15 to 12.00

Marks: 40

Q.1 (A) Give the scientific cultivation technology of Rose or Marigold crop with respect to following heads. (6.00)

- | | |
|----------------------------|----------------------------|
| (1) Importance and Uses | (2) Climate and Soil |
| (3) Propagation methods | (4) Manure and Fertilizers |
| (5) Training and Varieties | (6) Harvesting and Yield |

(B) Define / Explain the following terms (Any Four) (4.00)

- | | |
|------------------|-----------------------------|
| (1) Dried flower | (2) Post harvest technology |
| (3) Floriculture | (4) Pinching |
| (5) Bending | (6) Pre-cooling. |

Q.2 Write the short notes (Any Five) (10.00)

- (1) Classification of Chrysanthemum based on temperature.
- (2) Types of pruning in Rose
- (3) Varieties of China aster
- (4) Types of Green house
- (5) Uses of Dry flowers
- (6) Factors affecting the storage of flowers.

Q.3 (A) Write the Importance and Scope of Floriculture in India (6.00)

(B) Give the appropriate reason for the following(Any Four) (4.00)

- (1) Netting and staking is an important practice in carnation crop.
- (2) Disbudding is important practice in chrysanthemum crop.
- (3) Gerbera is not commercially cultivated in open field condition in Gujarat.
- (4) Pulsing is importance in flower crops..
- (5) Flowers are harvest in the early morning why?

Q.4 (A) What is drying? Enlist the drying methods used in different flower crops and give details of any one. (6.00)

(B) Differentiate the following (Any Four) (4.00)

- (1) Pruning v/s Training
- (2) African Marigold v/s French Marigold
- (3) Cut flower v/s Loose flower
- (4) Vase life v/s Shelf life
- (5) Pulsing v/s Tinting

*** X***