

JAMMU AND KASHMIR PUBLIC SERVICE COMMISSION

RESHAM GHAR COLONY, BAKSHI NAGAR, JAMMU - 180001

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Subject: Conduct of Written Examination for the post of Assistant Floriculture Officer in Floriculture, Gardens & Parks Department - Provisional Answer Key thereof.

Notification No. PSC/Exam/S/2024/52

Dated: 30.08.2024

In pursuance of Rule 10(c) of the Jammu & Kashmir Public Service Commission (Conduct of Examination) Rules, 2022, as amended upto date, the Provisional Answer Key of Question Paper pertaining to the **Written Test for the post of Assistant Floriculture Officer** held on **30.08.2024**, is hereby notified for seeking objections from candidates:

Provisional Answer Key
Assistant Floriculture Officer

Test Booklet Question No. (Series A)	
Q1	B
Q2	B
Q3	C
Q4	A
Q5	D
Q6	B
Q7	B
Q8	D
Q9	A
Q10	A
Q11	D
Q12	C
Q13	B
Q14	C
Q15	D
Q16	D
Q17	C
Q18	A
Q19	C
Q20	B
Q21	A
Q22	D
Q23	A
Q24	C
Q25	D
Q26	D

Test Booklet Question No. (Series A)	
Q27	D
Q28	A
Q29	B
Q30	C
Q31	A
Q32	C
Q33	D
Q34	C
Q35	D
Q36	C
Q37	A
Q38	D
Q39	C
Q40	B
Q41	A
Q42	D
Q43	C
Q44	A
Q45	B
Q46	B
Q47	C
Q48	D
Q49	A
Q50	C
Q51	D
Q52	D

Test Booklet Question No. (Series A)	
Q53	D
Q54	B
Q55	D
Q56	B
Q57	C
Q58	C
Q59	B
Q60	A
Q61	B
Q62	C
Q63	B
Q64	C
Q65	A
Q66	A
Q67	D
Q68	C
Q69	B
Q70	C
Q71	C
Q72	D
Q73	B
Q74	C
Q75	A
Q76	B
Q77	B
Q78	A

Test Booklet Question No. (Series A)	
Q79	A
Q80	C
Q81	C
Q82	C
Q83	C
Q84	B
Q85	C
Q86	B

Test Booklet Question No. (Series A)	
Q87	C
Q88	B
Q89	D
Q90	D
Q91	B
Q92	C
Q93	C
Q94	C

Test Booklet Question No. (Series A)	
Q95	B
Q96	C
Q97	B
Q98	C
Q99	C
Q100	A

The candidates are advised to refer to **Question Booklet (Series A)** to match the corresponding question(s) in their respective Question Booklet Series and if any candidate feels that the key to any of the question(s) is/are wrong, he/she may represent on prescribed format/proforma annexed as **Annexure-A** along with the documentary proof/evidence (**hard copies only**) and fee of Rs.500/- per question in the form of Demand Draft drawn in favour of **COE, J&K PSC** (refundable in case of genuine/correct representation) to the Controller of Examinations, Jammu & Kashmir Public Service Commission, from 02.09.2024 to 04.09.2024. **The candidates are further advised to clearly mention the question(s) objected to with reference to its serial number as it appears in the Question Booklet of Series A of the Provisional Answer Key.**

Further, any objection/application not accompanied by the requisite Demand Draft of Rs.500/- as prescribed, shall not be considered/entertained under any circumstances. Candidates are, in their own interest, advised to adhere to these instructions and not submit any objection unaccompanied by the Demand Draft as required under extant rules.

The Commission shall not entertain any such representation(s) after the expiry of the stipulated period i.e. **after 04.09.2024 (Wednesday), 05.00 pm.**

The provisional answer key is available on the website of the Commission <http://www.jkpsc.nic.in>.


30/08/24
(Sachin Jamwal) JKAS,
Additional Secretary

J&K Public Service Commission
Dated: 30.08.2024

No. PSC/Ex-Secy/2024/20

Copy to the: -

1. Director, Information and Public Relations, J&K for publication of the notice in all leading newspapers published from Jammu/Srinagar.
2. P.S. to Hon'ble Chairman, J&K Public Service Commission for information of the Hon'ble Chairman.
3. P.S. to Hon'ble Member, Shri _____ for information of the Hon'ble Member.
4. P. A. to Secretary, J&K Public Service Commission for information of the Secretary.
5. Main file/Stock file/Notice Board.

Annexure-A


Representation regarding objection(s) to any Question/Answer pertaining to the Written Test conducted for the post of Assistant Floriculture Officer on 30.08.2024

(NOTE: USE SEPARATE FORMS FOR SEPARATE QUESTIONS)

Name of the Applicant : _____
Roll No. : _____
Correspondence Address : _____
Contact/Mobile No. : _____
Date of Application: _____ .2024
Demand Draft No. date : _____
Candidates Account No.(16 digit) & IFSC Code : _____

Question No. in Series A	Details of the Objection	Resource Material (copy to be enclosed)	Details of the Website (if any)
<u>Correct Answer/Option as per candidate :</u>			

Signature of the Candidate

 **Note:** Application for each question/answer shall be made on separate page in the given format, otherwise the first question entered in the format shall only be considered.

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO

Booklet Serial No. **221629**

Test Booklet Series

TEST BOOKLET
ASSISTANT FLORICULTURE OFFICER
Written Test - 2024
(14)

A

Time Allowed: Two Hours

Maximum Marks: 100

INSTRUCTIONS

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET **DOES NOT** HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
2. Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series Code A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer /Response Sheet. Any omission/discrepancy will render the Response Sheet liable for rejection.
3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside.
DO NOT write anything else on the Test Booklet.
4. This Test booklet contains **100** items (questions). Each item comprises of four responses (answers). You will select the response which you want to mark on the Answer Sheet/Response Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose **ONLY ONE** response for each item.
5. You have to mark all your responses **ONLY** on the separate Answer /Response Sheet provided. See directions in the Response Sheet.
6. All items carry equal marks.
7. Before you proceed to mark in the Answer /Response Sheet, the response to various items in the Test Booklet, you have to fill in some particulars in the Answer /Response Sheet as per instructions sent to you with your Admission Certificate.
8. After you have completed filling in all your responses on the Response Sheet and the examination has concluded, you should hand over to the Invigilator **only the Answer /Response Sheet**. You are permitted to take away with you the Test Booklet and **Candidate's Copy of the Response Sheet**.
9. Sheets for rough work are appended in the Test Booklet at the end.
10. While writing Centre, Subject and Roll No. on the top of the Answer Sheet/Response Sheet in appropriate boxes use "**ONLY BALL POINT PEN**".
11. **Penalty for wrong answers:**
THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY THE CANDIDATE IN THE WRITTEN TEST (OBJECTIVE TYPE QUESTIONS PAPERS).
 - (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, **(0.25)** of the marks assigned to that question will be deducted as penalty.
 - (ii) If a candidate gives more than one answer, it will be treated as a **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above for that question.
 - (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be **no penalty** for that question.

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO

14(A)/2024

[P.T.O.]

14(A)

(2)

1. Hollyhock belongs to family.
 - A) Agavaceae.
 - B) Malvaceae.
 - C) Asteraceae.
 - D) Solanaceae.

2. *Clitoria ternatea* produces showy flowers of _____ colour.
 - A) Red.
 - B) Blue.
 - C) Yellow.
 - D) Orange.

3. Nearly 60% of Indian floriculture export consist of.
 - A) Cut flowers
 - B) Loose flowers
 - C) Dry flowers
 - D) Cut greens

4. Indo-Africa Friendship Rose Garden is located in
 - A) New Delhi
 - B) Mumbai
 - C) Mysore
 - D) Kashmir

5. Orchids are commercially propagated by
 - A) Seeds.
 - B) Cutting.
 - C) Air layering.
 - D) Tissue Culture.

6. How much seed will be required for 5 ha area of marigold cultivation if germination is 80%?
- A) 4.25 kg
 - B) 6.25 kg
 - C) 8.25 kg
 - D) 10.25 kg
7. Cocopeat: Perlite: Vermiculite required for 100 kg soilless media is.
- A) 50:25:25.
 - B) 60:20:20.
 - C) 70:15:15.
 - D) 80:10:10.
8. Which of the following is a summer flowering annual?
- A) Pansy.
 - B) Calendula.
 - C) Stock.
 - D) Zinnia.
9. _____ is a long day plant.
- A) Calendula.
 - B) Chrysanthemum.
 - C) Cosmos.
 - D) Poinsettia.
10. Climber with scented flowers is
- A) *Hiptage benghalensis*.
 - B) *Monstera deliciosa*.
 - C) *Ficus repens*.
 - D) *Pyrostegia venusta*.

11. _____ is very sensitive to ethylene
- A) Anthurium.
 - B) Gerbera.
 - C) Tulip.
 - D) Liliium.
12. The art of clipping and shearing shrubs small trees or herbaceous perennials into ornamental or abstract shapes is known as _____
- A) Deshooting.
 - B) Wintering.
 - C) Topiary.
 - D) Pinching.
13. Botanical name of Baby's breath flower is
- A) *Gerbera jamesonii*.
 - B) *Gypsophila paniculata*.
 - C) *Antirrhinum majus*.
 - D) *Dianthus caryophyllus*.
14. *Cassia fistula*, flowers in
- A) December.
 - B) February.
 - C) May.
 - D) August.
15. Savannah is cultivar of
- A) Tulip.
 - B) Liliium.
 - C) Carnation.
 - D) Gerbera.

16. Which of the following is not included in Japanese garden?
- A) Hill garden
 - B) Tea garden
 - C) Flat garden
 - D) Vertical garden
17. Which of the following is not principle of landscaping?
- A) Simplicity.
 - B) Accent.
 - C) Line.
 - D) Balance.
18. Most widely used method for extracting essential oil from flowers.
- A) Steam Distillation.
 - B) Solvent extraction.
 - C) Maceration.
 - D) Enfleurage.
19. Rose hips are a rich source of
- A) Vitamin A
 - B) Vitamin B
 - C) Vitamin C
 - D) Vitamin D
20. Largest flower auction in the world is located in
- A) Germany
 - B) Netherlands
 - C) China
 - D) India

21. Gladiolus is harvested when
- A) Lower most floret in spike shows colour
 - B) Middle floret in spike shows colour
 - C) Top floret in spike shows colour
 - D) All the florets in spike shows colour
22. Indian share in global flower market is about
- A) 10%
 - B) 5%
 - C) 2%
 - D) 0.6%
23. For checking air pollution foliage should be
- A) Thick and shining
 - B) Fine
 - C) Pubescent
 - D) Glabrous
24. Anti-cancerous drug is extracted from which ornamental plant?
- A) Hibiscus
 - B) Calendula
 - C) Periwinkle
 - D) Magnolia
25. The most suitable packing material for cut flowers is
- A) Wooden boxes
 - B) Plastic boxes
 - C) Iron boxes
 - D) Cardboard boxes

26. Where is the Brindavan gardens located?
- A) Gujarat
 - B) Tamil Nadu
 - C) Uttar Pradesh
 - D) Karnataka
27. Bitter apricot kernels are exclusively used for
- A) Substitutes in pastries
 - B) Preparation of confectionaries
 - C) Extraction of dyes
 - D) Extraction of oils
28. The wild apricot is commonly known as
- A) Chuli
 - B) Mahaleb
 - C) Behmi
 - D) Mazzard
29. Walnut is harvested at
- A) Pericarp tissues when cracked
 - B) Packing tissue turns brown stage
 - C) The peel colour turns yellow
 - D) After falling of fruits from trees
30. Clonally apple rootstocks are prepared using the propagation technique
- A) Air layering.
 - B) Trench layering.
 - C) Mound layering.
 - D) Simple layering.

31. Apple varieties more susceptible to fruit drop are belonging to the
- A) Early ripening group
 - B) Mid-ripening group
 - C) Late ripening group
 - D) Delicious group
32. Dasherri is a cultivar of
- A) Papaya
 - B) Apple
 - C) Mango
 - D) Banana
33. Top working in apple should not be practiced due to over growth in the variety
- A) Golden Delicious
 - B) Tydeman's Early
 - C) Red June
 - D) Red Gold
34. Leaf curl aphid is a serious pest of
- A) Apple
 - B) Pear
 - C) Peach
 - D) Plum
35. ICAR- Indian Institute of Horticultural Research is located at
- A) Kolkata
 - B) Patna
 - C) Sholapur
 - D) Bengaluru

36. Which vegetable is known eggplant?
- A) Cabbage
 - B) Sugar Beet
 - C) Brinjal
 - D) None of the above
37. Tomato belongs to family
- A) Solanaceae.
 - B) Agavaceae.
 - C) Malvaceae.
 - D) Asteraceae.
38. The edible part of cauliflower
- A) Stem
 - B) Leaf
 - C) Fruits
 - D) Inflorescence
39. Which one of the following is a winter-season vegetable?
- A) Tomato
 - B) Cucumber
 - C) Cabbage
 - D) Pumpkin
40. The vegetable crop widely used for salad purposes is:
- A) Chilli
 - B) Lettuce
 - C) Cauliflower
 - D) Pakchoi

41. Which of the following are not a root vegetable crop?
- A) Onion.
 - B) Radish.
 - C) Carrot.
 - D) Beetroot.
42. Vegetables are rich source of which of the following nutrients?
- A) Carbohydrate
 - B) Protein
 - C) Fatty acids
 - D) Vitamins and minerals
43. Name the vegetable with a very high concentration of antioxidant compounds and recommended for the prevention of cancer:
- A) Capsicum
 - B) Potato
 - C) Broccoli
 - D) Amaranthus
44. In Which of the following vegetables fruits are consumed?
- A) Hot pepper
 - B) Amaranthus
 - C) Palak
 - D) Onion
45. Which of the following is an Indian-originated vegetable crop?
- A) Sweet pepper.
 - B) Brinjal.
 - C) Tomato.
 - D) Potato.

46. Which group of vegetable crops are rich in glucosinolates content?
- A) Solanaceae vegetables
 - B) Cole crops
 - C) Root crops
 - D) Leafy vegetables
47. Kufri in Himachal Pradesh is known for the improvement of which of the following vegetable crops?
- A) Onion
 - B) Cabbage
 - C) Potato
 - D) Beet root
48. Name the vegetable widely grown under protected conditions.
- A) Cauliflower
 - B) Bottle gourd
 - C) Okra
 - D) Sweet pepper
49. Indigenous weeds are
- A) Apophytes
 - B) Antrophytes.
 - C) Alien weed
 - D) None of the above
50. Sunhemp belongs to
- A) Cereals crop
 - B) Pulse crop
 - C) Fibre crop
 - D) Sugar crop

51. Crop or crops grown for grazing or harvesting for immediate or future feeding to livestock is known as
- A) Paira crops
 - B) Nurse crops
 - C) Cover crops
 - D) Ley crops
52. Puddling is the major tillage operation for rice cultivation with standing water in the field. Therefore, it causes
- A) Decrease soil bulk density
 - B) Increase Soil bulk density
 - C) Reduce porosity
 - D) Both (B) and (C)
53. Influence of very high humidity on plants are
- A) Increase evapotranspiration
 - B) Reduce evapotranspiration
 - C) Reduce CO₂ uptake
 - D) Both (B) and (C).
54. World's most widely cultivated crop is
- A) Rice
 - B) Wheat
 - C) Maize
 - D) Sorghum
55. Aflatoxin contamination is a major problem in
- A) Sugarcane
 - B) Wheat
 - C) Pearl millet
 - D) Groundnut

56. Which one is the most potential greenhouse gas (GHG) in respect to global warming
- A) CO_2
 - B) Chlorofluoro carbons
 - C) CH_4
 - D) N_2O
57. Which one is metamorphic rock?
- A) Granite
 - B) Basalt
 - C) Marble
 - D) Shale
58. Herbicides are not applied as dust due to
- A) High cost
 - B) Lack of equipment
 - C) Drift hazard
 - D) All of the above.
59. Dapog method of raising rice nursery was introduced in India from
- A) Japan
 - B) Philippines
 - C) Thailand
 - D) Korea
60. Harvest index is
- A) $(\text{Economic yield}/\text{Biological yield}) * 100$
 - B) $(\text{Biological yield}/\text{Economic yield}) * 100$
 - C) $(\text{Economic yield} * \text{Biological yield})$
 - D) $(\text{Economic yield}/\text{Biological yield})$

61. Black soils also known as
- A) Alfisols
 - B) Vertisols
 - C) Entisols
 - D) Oxisols
62. Which year National Rainfed Area Authority (NRAA) was set up?
- A) 2023
 - B) 2021
 - C) 2006
 - D) 2004
63. Cultivation of two or more than two crops simultaneously on the same land without definite row pattern or fixed ratio is known as
- A) Relay cropping
 - B) Mixed cropping
 - C) Utera cropping
 - D) Multi-tier cropping
64. Which year Pradhan Mantri Fasal Bima Yojana (PMFBY) was launched?
- A) 2021
 - B) 2017
 - C) 2016
 - D) 2023
65. Per hectare use of total fertilizer nutrients ($N+P_2O_5+K_2O$) in India is around.
- A) 141 kg
 - B) 160 kg
 - C) 131 kg
 - D) 152 kg

66. Which of the following forms of IPR have defined period?
- A) Patent
 - B) Trademark
 - C) Trade secret
 - D) None of these
67. The headquarter of IAEA is present in
- A) Berlin, Germany
 - B) Nice, Paris
 - C) Rome, Italy
 - D) Vienna, Austria
68. Which of the following population has wider adaptability?
- A) Single cross hybrid
 - B) Pureline
 - C) Synthetics
 - D) Double cross hybrid
69. Inbreeding depression is more common in -
- A) Self-fertilizing species
 - B) Outcrossing species
 - C) Often cross-pollinated species
 - D) Clonal crops
70. Which one of the following is a negative feature of a backcross breeding?
- A) Population size is small
 - B) Only one parent is used for several times in crossing programme
 - C) There is no improvement in genotype other than the target character
 - D) All of these

71. In mutation breeding, selection for quantitative traits starts in
- A) M_1 Generation
 - B) M_2 Generation
 - C) M_3 Generation
 - D) M_0 Generation
72. Which of the following is not a major method for genetic improvement of cross-pollinated crops?
- A) Hybrid breeding
 - B) Recurrent selection
 - C) Mass selection
 - D) Single seed descent method
73. Which of the following is a biennial crop?
- A) Sugarcane
 - B) Sugar beet
 - C) Alfalfa
 - D) Cassava
74. A hybrid plant is
- A) Always heterogeneous
 - B) Always homogeneous
 - C) Always heterozygous
 - D) Always homozygous
75. The term mutation was coined by
- A) Hugo de Vries
 - B) C. Darwin
 - C) F. Blakeslee
 - D) A. K. Gustafsson

76. In AABbCCDdEeFF hybrid, number of different gametes possible is
- A) 2
 - B) 8
 - C) 16
 - D) 20
77. A phenomenon where a single gene has more than one phenotypic effect is known as
- A) Phenocopy
 - B) Pleiotropy
 - C) Phenotype
 - D) Phenology
78. Which of the following is a reductional division?
- A) Meiosis I
 - B) Meiosis II
 - C) Mitosis
 - D) Both (A) and (B)
79. Down's syndrome occurs due to_____.
- A) Trisomy of Chromosome no 21
 - B) Trisomy of Chromosome Number 20
 - C) Nullisomy of Chromosome number 21
 - D) Deletion in Chromosome 21
80. _____ are units made of DNA wrapped around histone proteins like a spool
- A) Chromosomes
 - B) Centrosomes
 - C) Nucleosomes
 - D) Kinetosomes

81. Maternal inheritance is associated with
- A) Nuclear genes
 - B) Mendelian ratio
 - C) Organellar genome
 - D) Polygenes
82. Gene for gene hypothesis was proposed by_____.
- A) Weismann
 - B) Watson and Crick
 - C) H. H. Flor
 - D) C. Darwin
83. PPV&FR Act of India gives protection on _____.
- A) Agricultural crops
 - B) Tree species
 - C) Both of these
 - D) None of these
84. Which of the following is not an often-cross pollinated crop?
- A) Jute
 - B) Pea
 - C) Pigeon pea
 - D) Broad bean
85. Potato has originated from _____
- A) North America
 - B) Central America
 - C) South America
 - D) South Asia

86. Which phytohormone helps in the elongation of shoot and root tips behind apical meristem
- A) Cytokinin
 - B) Auxin
 - C) Abscisic acid
 - D) Gibberellins
87. Foundation Seed is the progeny of _____
- A) Nucleus Seed
 - B) Certified Seed
 - C) Breeder Seed
 - D) Either (C) or (D)
88. HD 2967 is variety of
- A) Rice
 - B) Wheat
 - C) Maize
 - D) Sorghum
89. Which is the leading state in Finger Millet (Ragi) Production in India?
- A) Andhra Pradesh
 - B) Maharashtra
 - C) Tamil Nadu
 - D) Karnataka
90. Embryo rescue is used for
- A) Development of interspecific hybrids
 - B) Development of haploid plants
 - C) Development of intergeneric hybrids
 - D) All of these

91. What happens with photophosphorylation?
- A) Chemical energy converted to ATP
 - B) Photo-energy converted to ATP
 - C) CO_2 is reduced to Carbohydrate
 - D) NADP is produced
92. *Bakanae* disease of rice is due to
- A) Nematode
 - B) Bacteria
 - C) Fungi
 - D) MLO
93. Gundhi bug attack on rice at
- A) Grain Filling stage
 - B) Flowering stage
 - C) Milking stage
 - D) Dough stage
94. Loose smut of wheat is _____
- A) Externally seed borne
 - B) Air borne
 - C) Internally seed borne
 - D) Soil borne
95. Food reserve in fungi is mainly
- A) Starch
 - B) Glycogen
 - C) Fat
 - D) Glucose

96. Citrus canker disease is caused by
- A) Fungi
 - B) Algae
 - C) Bacteria
 - D) Viruses
97. Yellow sticky traps are used against
- A) House flies
 - B) Whiteflies
 - C) Gall flies
 - D) Fruit flies
98. Earthing up in sugarcane is recommended for the management of
- A) Top shoot borer
 - B) Scales
 - C) Early shoot borer
 - D) Internodal borer
99. Peanut bud necrosis virus is transmitted by
- A) Whiteflies
 - B) Aphids
 - C) Thrips
 - D) Both (B) and (C)
100. Zone of effective temperature for insects is
- A) 10-35°C
 - B) 10-25°C
 - C) 15-25 °C
 - D) 20-25°C

ROUGH WORK

ROUGH WORK

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