



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/2024/28

Dated: 28.05.2024

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 **28.05.2024**, is hereby notified for seeking objections from candidates:

Provisional Answer Key

Test Booklet Question No. (Series A)	
Q1	A
Q2	D
Q3	A
Q4	C
Q5	C
Q6	A
Q7	D
Q8	B
Q9	A
Q10	D
Q11	B
Q12	B
Q13	A
Q14	A
Q15	A
Q16	A
Q17	B
Q18	D
Q19	A
Q20	C
Q21	A
Q22	B
Q23	B
Q24	D
Q25	C
Q26	A
Q27	D

Test Booklet Question No. (Series A)	
Q28	B
Q29	A
Q30	C
Q31	D
Q32	B
Q33	A
Q34	A
Q35	C
Q36	B
Q37	A
Q38	A
Q39	D
Q40	B
Q41	D
Q42	A
Q43	D
Q44	B
Q45	A
Q46	B
Q47	B
Q48	C
Q49	B
Q50	B
Q51	A
Q52	B
Q53	C
Q54	C

Test Booklet Question No. (Series A)	
Q55	C
Q56	C
Q57	D
Q58	C
Q59	D
Q60	B
Q61	A
Q62	C
Q63	C
Q64	A
Q65	A
Q66	B
Q67	C
Q68	A
Q69	C
Q70	D
Q71	A
Q72	B
Q73	C
Q74	D
Q75	A
Q76	B
Q77	C
Q78	B
Q79	A
Q80	A
Q81	C

Test Booklet Question No. (Series A)	
Q82	B
Q83	C
Q84	A
Q85	D
Q86	B
Q87	D
Q88	B
Q89	A
Q90	C
Q91	B
Q92	C
Q93	A
Q94	D

Test Booklet Question No. (Series A)	
Q95	B
Q96	C
Q97	A
Q98	B
Q99	C
Q100	C
Q101	D
Q102	D
Q103	A
Q104	B
Q105	A
Q106	D
Q107	C

Test Booklet Question No. (Series A)	
Q108	A
Q109	B
Q110	B
Q111	A
Q112	B
Q113	A
Q114	B
Q115	A
Q116	B
Q117	B
Q118	D
Q119	A
Q120	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 29.05.2024 to 31.05.2024. **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 31.05.2024 (Friday), 05.00 pm.**

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

28.05.2024
(G.L Sharma), JKAS

Additional Secretary

J&K Public Service Commission

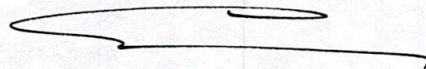
Dated: 28.05.2024

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. P.A. to Controller of Examinations, J&K Public Service Commission.
6. Main file/Stock file/Notice Board.



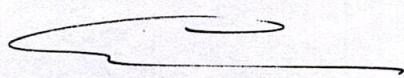
Annexure-A

Representation regarding objection(s) to any Question/Answer pertaining to the Written Test conducted for the post(s) of Assistant Floriculture Officer on 28.05.2024

(NOTE: USE SEPARATE FORMS FOR SEPARATE QUESTIONS)

Name of the Applicant : _____
Roll No. : _____
Correspondence Address : _____
Contact/Mobile No. : _____
Date of Application: _____ .05.2024
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. **203069**

Test Booklet Series

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

A

Time Allowed: Three Hours

Maximum Marks: 120

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 **120** 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.]

1. Yellow Revolution started in 1986-87 in India is related to the production of
 - A) Edible oil seeds
 - B) Honey
 - C) Fruits
 - D) Leather

2. Which of the following establishes the importance of agriculture in national economy?
 - A) Higher per capita income of the people of the country
 - B) Higher share of agriculture sector in the GDP of the country
 - C) Higher share of industrial sector in the GDP of the country
 - D) Higher percentage of agriculture dependent population in the country.

3. Which one of the following phytohormone controls the apical dominance in plants?
 - A) Auxin
 - B) Cytokinin
 - C) Ethylene
 - D) Gibberellins

4. Which one is not a principle of Extension Education?
 - A) Principle of Interest and Needs
 - B) Principle of Cultural Difference
 - C) Le Chatelier's principle
 - D) The Grass Root Principle of Organization.

5. Which of the following enzyme is activated by zinc?
 - A) Catalase
 - B) Peroxidase
 - C) Carbonic anhydrase
 - D) Nitrate reductase

6. Which of the following is involved in energy storage and transfer?
 - A) Phosphorus
 - B) Sodium
 - C) Potassium
 - D) Calcium

7. Visual symptoms of magnesium deficiency first appear as:
- A) General yellowing of young leaves
 - B) Purple colour on older leaves
 - C) Marginal scorching of older leaves
 - D) Interveinal chlorosis of older leaves
8. ICAR-National Institute of Abiotic Stress Management is located at :
- A) Raipur, Chhattisgarh
 - B) Malegaon khurd, Pune
 - C) New Delhi
 - D) Bhopal, Madhya Pradesh
9. The International Wheat and Maize Improvement Centre (CIMMYT) is located at:
- A) El Batan, Mexico
 - B) Lima
 - C) Rome
 - D) Manila, Philippines
10. Shifting cultivation is also known as :
- A) Podu
 - B) Swidden agriculture
 - C) Jhum cultivation
 - D) All of the above
11. The vertical section of soil is called as :
- A) Horizon
 - B) Soil Profile
 - C) Bed Rock
 - D) Regolith
12. Musk melon is a
- A) Non-climacteric
 - B) Climacteric
 - C) Both A and B
 - D) None of these

13. Soil fertility is the ability of the soil to :
- A) Provide essential plant nutrients in available forms and suitable balance
 - B) Produce crop yields under specified systems of management of inputs and environmental conditions.
 - C) Amount of organic matter present in the soil
 - D) None of the above
14. Bangalore method of Compost preparation was developed by
- A) Dr.C.N.Acharya
 - B) Sir Elbert Howard
 - C) Shri. Narayan Deorao Pandharipande
 - D) Dr. C. L. Acharya
15. In which of the cucurbits the anthesis occur in the evening:
- A) Bottle gourd
 - B) Muskmelon
 - C) Sponge gourd
 - D) Cucumber
16. The incidence of Late blight is more in _____ weather
- A) Cool temp. and high humidity
 - B) Cool temp. and low humidity
 - C) High temp. and high humidity
 - D) High temp. and low humidity
17. Ampelography is related to
- A) Cole crops
 - B) Vine crops
 - C) Tuber crop
 - D) Bulb crops
18. Keel is present in
- A) Brinjal
 - B) Amaranthus
 - C) Asparagus
 - D) Cluster bean

19. The ETL(Economic Threshold Level) of aphid populations in case of potato
- 20/100 leaves
 - 10/100 leaves
 - 40/100 leaves
 - 5/100 leaves
20. Read the following statements and choose the correct answer (s)
- Statement I :**Incorporation of fertilizers into the soil prior to planting is known as top dressing
- Statement II:** Phosphatic fertilizers are commonly applied as top dressing
- In light of the above statements choose the most appropriate answer from the options given below
- Statement I is true but Statement II is false
 - Statement I is false but Statement II is true
 - Both statements I and II are false
 - Both statements I and II are true
21. Climatological approach of irrigation scheduling is based on
- IW : CPE Method
 - Readily available information on weather, crop and soil information.
 - Tensiometer reading
 - None of the above
22. Match the following
- | | |
|---------------------------|---------|
| a) Grey speck in oats | i) Mg |
| b) Fern leaf of potato | ii) B |
| c) Grass tetany | iii) Zn |
| d) Internal cork of apple | iv) Mn |
- a (ii), b (iv), c (i), d (iii)
 - a (iv), b (iii), c (i), d (ii)
 - a (iv), b (iii), c (ii), d (i)
 - a (iii), b (iv), c (i), d (ii)
23. Sulphate of potash (Potassium sulphate) contains _____% Sulphur
- 50%
 - 17%
 - 25%
 - 12%

24. Ploidy level of Strawberry is
A) Diploid
B) Hexaploid
C) Tetraploid
D) Octaploid
25. At wilting point, water is held at a tension of _____ bar at equivalent pF value of _____
A) 31 bar, 4.5
B) 31 bar, 2.5
C) 15 bar, 4.2
D) 15 bar, 4.5
26. Lettuce is a -----pollinated crop:
A) Self
B) Cross
C) Often cross
D) None
27. Dioecious means
A) Male & female parts on same plants
B) Only male parts on plants
C) Only female parts on plants
D) Male & female parts on different plants
28. Tendrometer is used to measure maturity of which vegetable crop:
A) Cow pea
B) Garden pea
C) French bean
D) Dolichos bean
29. Thinning is compulsory in:
A) Beet root
B) Chilli
C) Carrot
D) Brinjal
30. Black Beauty is a variety of
A) Tomato
B) Okra
C) Brinjal
D) Sweet Potato

31. Water requirement is equal to .

- A) IR-ER-S
- B) IR-ER+S
- C) IR+ER-S
- D) IR+ER+S

IR = Irrigation requirement

ER = Effective rainfall

S = Soil profile contribution

32. Which is known as wholesome food?

- A) Water melon
- B) Musk melon
- C) Cucumber
- D) Bottle gourd

33. Origin of Mango is :

- A) Indo-Burma
- B) China
- C) Africa
- D) Tropical America

34. Kinnow is a cross of :

- A) King × Willow Leaf
- B) Lime × Lemon
- C) Lemon × Lime
- D) Sweet Orange × Sour Orange

35. M 9 is a dwarfing rootstock of :

- A) Peach
- B) Mango
- C) Apple
- D) Sapota

36. Mridula is a cultivar of:

- A) Guava
- B) Pomegranate
- C) Pineapple
- D) Banana

37. Causal organism of 'Sigatoka leaf spot' disease in banana is :
- A) Fungus
 - B) Bacteria
 - C) Algae
 - D) Virus
38. In Tobacco, the correct chronological order of practices is
- A) Topping-desucking-priming
 - B) Desucking-topping-priming
 - C) Priming-desucking-topping
 - D) Priming-topping-desucking
39. Which is not an element of sustainable agriculture?
- A) Permaculture
 - B) Agroforestry
 - C) Multiple cropping
 - D) Use of synthetic fertilizers
40. The fruit of rapeseed and mustard is known as
- A) Drupe
 - B) Siliqua
 - C) Caryopsis
 - D) Grain
41. _____ is regarded as Camel crop.
- A) Maize
 - B) Sugarcane
 - C) Wheat
 - D) Sorghum
42. The type of germination in chickpea is
- A) Hypogeal
 - B) Epigeal
 - C) Vivipary
 - D) None

43. According to the Export Act 1963 (modified 2003), Govt. of India, Basmati rice should be

- I) Grown in Indo-Gangetic plains only.
 - II) Exceptional in length after cooking
 - III) Of high integrity and high discreteness.
 - IV) Distinct in aroma, taste and mouth feel
- A) I and II
 - B) II and IV
 - C) III and IV
 - D) All of the above

44. The membranous fringe on the side of wheat leaf next to culm, which is a continuation of sheath through collar is known as

- A) Auricle
- B) Ligule
- C) Leaf blade
- D) Leaf Sheath

45. The composition of wheat Kernel (weight) is

- A) Germ(Embryo)-2.5%, Bran-14%, Endosperm-83-87%
- B) Germ(Embryo)-14%, Bran-2.5%, Endosperm-83-87%
- C) Germ(Embryo)-83-87%, Bran-14%, Endosperm-2.5%
- D) Germ(Embryo)-2.5%, Bran-83-87%, Endosperm-14%

46. Match the columns

- | | |
|-------------------------|----------------------|
| a) Rice | i) Co 0238 (Karan 4) |
| b) Soyabean | ii) RCH 1 |
| c) Sugarcane | iii) PS 1347 |
| d) Repeseed and mustard | iv) Sandhya |
- A) a (ii), b (iv), c (i), d (iii)
 - B) a (iv), b (iii), c (i), d (ii)
 - C) a (iii), b (iv), c (ii), d (i)
 - D) a (iii), b (iv), c (i), d (ii)

47. Integrated plant nutrient management refers to the maintenance of soil fertility and plant nutrient supply at an optimum level for sustaining the desired productivity through:
- A) Integration of fertilizers supplying all essential nutrient elements
 - B) Integration of all possible sources of nutrients (organic, inorganic and biological)
 - C) Integration of all possible sources of nutrients (organic and biological)
 - D) Integration of all possible sources of nutrients with pesticides
48. Integrated farming system is a sustainable agricultural system that integrates:
- A) Different agricultural crops on a farm
 - B) Agricultural, horticultural and forestry crops
 - C) Live stock, crop production, fish, poultry, tree crops, plantation crops and other systems.
 - D) Chemical fertilizers, organic manures and biological nutrient sources.
49. Contingent planning means
- A) Change in normal crop planning to meet market demand
 - B) Change in normal crop planning to meet weather abnormalities
 - C) Change in normal crop planning to meet disease free period
 - D) None of the above
50. The symbiotic association between fungi and algae is referred as _____
- A) Mycorrhiza
 - B) Lichen
 - C) Phycobiont
 - D) Mycobiont
51. Commercial storage temperature recommended for apple is :
- A) -1 to 4°C
 - B) 7 to 10°C
 - C) -0.5 to 0°C
 - D) -7 to 10°C

52. Kiwi fruit is rich in
- A) Vit A
 - B) Vit C
 - C) Fats
 - D) Proteins
53. In the world, grapes are mostly processed into:
- A) Raisin
 - B) Juice
 - C) Wine
 - D) Jam
54. The movement of ions and water into the plant root as a result of metabolic processes by the root, frequently against an activity gradient is called:
- A) Transpiration pull
 - B) Passive absorption
 - C) Active absorption
 - D) Neutral absorption
55. Male sterility in marigold is governed by
- A) Dominant genes
 - B) Partially dominant genes
 - C) Recessive genes
 - D) Partially recessive genes
56. Fungi are
- A) Photoautotrophs
 - B) Chemooautotrophs
 - C) Heterotrophs
 - D) None of the above

57. Cynogas pump is a

- A) Sprayer
- B) Duster
- C) Flame thrower
- D) Fumigator

58. In a cell, the main sites of respiration are

- A) Plastids
- B) Ribosomes
- C) Mitochondria
- D) Lysosomes

59. Khaira disease of rice can be controlled by spraying:

- A) CuSO_4
- B) MnSO_4
- C) FeSO_4
- D) ZnSO_4

60. Match List I with List II

- | | |
|----------------|----------------------------------|
| a) Exclusion | i) Spraying common fungicide |
| b) Avoidance | ii) Chemical seed treatment |
| c) Eradication | iii) Isolation in time and space |
| d) Protection | iv) Plant Quarantine |
-
- A) a (ii), b (iv), c (i), d (iii)
 - B) a (iv), b (iii), c (i), d (ii)
 - C) a (iii), b (iv), c (ii), d (i)
 - D) a (iii), b (iv), c (i), d (ii)

61. Calculate the plant population/m², if the spacing of Crop is 20×20 cm
- A) 25 plants
 - B) 2,50,000 plants
 - C) 250 plants
 - D) 2500 plants
62. An annual weed commonly found in rice field is
- A) *Cynodon dactylon*
 - B) *Cyperus rotundus*
 - C) *Echinochloa crusgalli*
 - D) *Phalaris minor*
63. _____ species of hibiscus exhibits colour change throughout the day
- A) *Syriacus*
 - B) *Schizopetalus*
 - C) *Mutabilis*
 - D) *Rosa-sinensis*
64. Read the following statements and choose the correct answer(s)
- Statement I :** The weed density above which crop yield reduces significantly is called competitive threshold.
- Statement II:** The time span when weeding results in maximum return is called as economic threshold
- In light of the above statements choose the most appropriate answer from the options given below
- A) Statement I is true but Statement II is false
 - B) Statement I is false but Statement II is true
 - C) Both statements I and II are false
 - D) Both statements I and II are true
65. Efficient utilization of CO₂ by _____ type weeds contribute towards rapid growth.
- A) C4
 - B) C3
 - C) CAM
 - D) All of the above

66. Bioagent for control of *Parthenium hysterophorus*
- A) *Bactra verutana*
 - B) *Zygogramma bicolorata*
 - C) *Chrysolira*
 - D) *Flee beetle*
67. Fragrance trait exhibits _____ inheritance
- A) Monogenic
 - B) Oligogenic
 - C) Polygenic
 - D) Homogenic
68. The term, Allelopathy was first introduced by
- A) Hans Molisch
 - B) Rice
 - C) Decondole
 - D) Democritus
69. Match the columns
- | | |
|----------------------------|-------------------|
| a) Selective herbicide | i) Phenoxy |
| b) Non-Selective herbicide | ii) Devine |
| c) Bioherbicide | iii) Fluchloralin |
| d) Plant growth regulator | iv) Glyphosate |
- A) a (ii), b (iv), c (i), d (iii)
B) a (iv), b (iii), c (i), d (ii)
C) a (iii), b (iv), c (ii), d (i)
D) a (iii), b (iv), c (i), d (ii)
70. An adjuvant is added in a herbicidal formulation to modify herbicidal activity or application characteristics with objectives
- A) Improve shelf life
 - B) Improve toxicity on target plants
 - C) Improve herbicide selectivity to the non-target plant
 - D) All of the above
71. Which herbicide is amino acid synthesis inhibitor
- A) Glyphosate
 - B) 2, 4-D
 - C) MCPA
 - D) Atrazine

72. Rose mutant 'Abhisarika' developed through gamma rays from
- A) Pusa Anmol
 - B) Kiss of Fire
 - C) Pusa Mohini
 - D) First Red
73. Varieties Motia, Bella, Sujimallige are evolved from _____ species of Jasmine
- A) *primulinum*
 - B) *grandiflorum*
 - C) *sambac*
 - D) *auriculatum*
74. Inter-generic cross have been successful in
- A) Rose
 - B) Carnation
 - C) Lilium
 - D) Orchids
75. Pusa Narangi Gainda and Pusa Basanti Gainda marigold varieties are developed by
- A) IARI, NEW DELHI
 - B) PAU, LUDHIANA
 - C) IIHR, BANGALORE
 - D) NBRI, LUCKNOW
76. Kranz anatomy is found in _____ plants
- A) C_3
 - B) C_4
 - C) C_2
 - D) All of the above
77. Maximum area and production of walnut in India is in
- A) Arunachal Pradesh
 - B) Himachal Pradesh
 - C) Jammu and Kashmir
 - D) Uttaranchal

78. A highly popular β carotene fortified variety of rice is :
- A) Red Rice
 - B) Golden Rice
 - C) Pusa Basmati 1121
 - D) Kasturi Basmati
79. The first double cross hybrid was developed in which crop:
- A) Maize
 - B) Wheat
 - C) Rice
 - D) Barley
80. Which of the following regulates opening and closing of stomata is:
- A) K
 - B) 2,4-D
 - C) B
 - D) Paraquat
81. Pungency in mustard oil is due to:
- A) Amino acid
 - B) Erusic acid
 - C) Glucosinolates
 - D) None of the above
82. De haulming in potato is done to obtain
- A) Higher sugar content
 - B) Quality seed tuber
 - C) Higher starch content
 - D) Higher protein content
83. Based on photoperiodic response, 'Papaya' is classified under:
- A) Long-day plant
 - B) Short-day plant
 - C) Day-neutral plant
 - D) None of the above

84. Precursor of Auxin is :
- A) Tryptophan
 - B) Terpenoids
 - C) Isopentenyl
 - D) None of these
85. Which of the following is not the mandate of KVK?
- A) Trainings
 - B) On farm testing
 - C) Front line demonstrations
 - D) Farmer Field School
86. Which one is not a component of farm planning?
- A) Inventory of scarce resources and constraints
 - B) Project management
 - C) Alternative choices
 - D) Input output coefficients
87. The practice of planning, scheduling, and allocating people, money, and technology to a project program is called:
- A) Resource allocation
 - B) Farm planning and management
 - C) Project or program management
 - D) Resource management
88. NICRA is :
- A) National Innovations in Climate Resilient Agriculture
 - B) National Institute for Climate Resilient Agriculture
 - C) National Initiatives in Climate Resilient Agronomy
 - D) National Initiatives for Climate Smart Agriculture
89. In farm management, the technological relation between quantities of physical inputs and quantity of the output of goods is called.
- A) Production Function
 - B) Output efficiency
 - C) Physical Productivity
 - D) None of these
90. An estimate of all income and expenses associated with a specific enterprise and an estimate to profitability is called:
- A) Finance budgeting
 - B) Complete budgeting
 - C) Enterprise budgeting
 - D) Incomplete budgeting

91. The change in cost associated with an increase of one unit of output is referred to as:
- A) Average variable cost
 - B) Marginal cost
 - C) Average fixed cost
 - D) Total variable cost
92. Which of the following market functions creates form utility to commodities/Products?
- A) Storage
 - B) Transportation
 - C) Processing
 - D) Grading
93. The ability possessed by markets to include information that offers the maximum possible opportunities for traders to buy and sell commodities without incurring additional transaction costs refers to :
- A) Market efficiency
 - B) Technical efficiency
 - C) Allocation efficiency
 - D) Operational efficiency
94. Who among the following recommends the minimum Support price (MSP) and issue price for paddy and wheat.
- A) NABARD
 - B) Ministry of Agriculture and Farmers' Welfare
 - C) NITI Aayog
 - D) Commission for Agricultural Costs and Prices.
95. Highest per capita consumption of flower is in
- A) USA
 - B) Switzerland
 - C) Germany
 - D) France

96. The disadvantages of Aristotle's model of communication are (which one is a correct combination)
- A) One-way communication, weak encoding and audience created content
 - B) One-way communication, weak encoding and stress on the speaker
 - C) One-way communication, ignorance of noise, no feedback and stress on the speaker
 - D) One-way communication, ignorance of noise and audience created content
97. Failure of pollen from a flower to fertilize the same flower or other flowers on the same plant is known as _____
- A) Self-incompatibility
 - B) Male sterility
 - C) Apomixis
 - D) None of the above
98. Improvement in the mean genotypic value of the selected families over that of the base population known as _____
- A) Heritability
 - B) Genetic advance under selection
 - C) Selection differential
 - D) Segregation
99. Exchange of strictly homologous segments between non-sister chromatids of homologous chromosomes is known as _____
- A) Translocation
 - B) Duplication
 - C) Crossing over
 - D) Transduction
100. Laws of inheritance were discovered by Mendel in 1866 working with
- A) *Drosophila*
 - B) Maize
 - C) Garden pea
 - D) *Neurospora*
101. Which of the following is not a transfer of technology project:
- A) Operational Research Project
 - B) Lab to Land Programme
 - C) All India Co-ordinated Project on National Demonstration
 - D) Institutional Village Linkage Programme

102. Which of the following mutagen cause frame-shift mutations _____
- A) Base analogues
 - B) Alkylating agents
 - C) Deamination agents
 - D) Acridine dyes
103. A strategy to isolate the two parental inbreds of any outstanding heterozygous/hybrid plant is known as _____
- A) Reverse breeding
 - B) Reverse genetics
 - C) Convergent improvement
 - D) Pedigree selection
104. Which is the India's first released hybrid variety of Pigeonpea in 1991
- A) ICPH-1
 - B) ICPH-8
 - C) ICPH-5
 - D) ICPH-11
105. Genetic variability that is available for selection to act on is known as _____
- A) Free genetic variability
 - B) Potential genetic variability
 - C) Heterozygotic potential variability
 - D) Homozygotic potential variability
106. Which of the following is not true about a *clone*?
- A) Identical in genotype
 - B) Lack of genetic variation
 - C) They are immortal
 - D) They show no inbreeding depression
107. When pollen from a flower of one plant falls on to the stigmas of the other flowers on the same plant is known as _____
- A) Autogamy
 - B) Allogamy
 - C) Geitonogamy
 - D) None of the above

108. The first segment of an insect's alimentary canal is known as
- A) Foregut
 - B) Midgut
 - C) Hindgut
 - D) Mesentron
109. Optimum stage for harvesting Gerbera is
- A) Loose bud stage
 - B) Flowers completely open
 - C) When Disc sheds pollen
 - D) Flowers partially completely open
110. The alimentary canal is aerostatic in function in case of
- A) Odonata
 - B) Ephemeroptera
 - C) Diptera
 - D) Coleoptera
111. Retinue pheromones are secreted by
- A) Honey bee
 - B) Gram pod borer
 - C) Aphids
 - D) Silkworm
112. Which layer of integument is a prime example of natural biocomposite?
- A) Epicuticle
 - B) Procuticle
 - C) Basement membrane
 - D) Cement layer
113. Nitric oxide, a special kind of probable neuromodulator was reported for the first time from which insect?
- A) Locust
 - B) Silkworm
 - C) Cockroach
 - D) Aphids

114. Ability of a gene to express itself in the individuals carrying it in the appropriate genotype is known as _____
- A) Expressivity
 - B) Penetrance
 - C) Multiple allele
 - D) None of the above
115. The Black rust disease of wheat is caused by
- A) *Puccinia graminis*
 - B) *Xanthomonas graminis*
 - C) *Puccinia recondite*
 - D) None of these
116. The *Tungro virus* disease of rice is transmitted by
- A) Leaf minor
 - B) Green leaf hopper
 - C) Gall midge
 - D) Brown plant hopper
117. The World soil day is celebrated every year on
- A) 5th November
 - B) 5th December
 - C) 5th July
 - D) 5th September
118. Soyabean seeds contain
- A) 20% oil and 20% protein
 - B) 40% oil and 20% protein
 - C) 40% oil and 40% protein
 - D) 20% oil and 40% protein
119. Match the columns
- | | |
|----------------------------|----------------------------|
| a) Endotrophic mycorrhizae | i) <i>Boletus</i> |
| b) Ectotrophic mycorrhizae | ii) <i>Pseudomonas</i> spp |
| c) Bio-fertilizer | iii) <i>Glomus</i> |
| d) P-solubilizer | iv) <i>Rhizobium</i> |
- A) a(iii), b(i), c(iv), d(ii)
 - B) a(iv), b(iii), c(i), d(ii)
 - C) a(iii), b(iv), c(ii), d(i)
 - D) a(iii), b(iv), c(i), d(ii)
120. Zonate leaf spot is caused by
- A) *Gleocercospora sorghi*
 - B) *Sphacelia sorghi*
 - C) *Sphacelotheca criuenta*
 - D) *Puccinia purpurea*

ROUGH WORK

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