

Test Booklet No. _____

This booklet consists of 150 questions and 19 printed pages.

RGUPET/2024/___/___

**RGUPET 2024
Common Entrance Test, 2024**

DOCTOR OF PHILOSOPHY IN HORTICULTURE

**Full Marks: 150
Hours**

Time: 3

Roll No.

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Day and Date of Examination: _____

Signature of Invigilator(s) _____

Signature of Candidate _____

General Instructions:

PLEASE READ ALL THE INSTRUCTIONS CAREFULLY BEFORE MAKING ANY ENTRY.

1. DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO.
2. Candidate must write his/her Roll Number on the space provided.
3. This Test Booklet contains 150 Multiple Choice Questions (MCQs) from the concerned subject. Each question carries 1 mark.
4. Please check the Test Booklet to verify that the total pages and total number of questions contained in the test booklet are the same as those printed on the top of the first page. Also check whether the questions are in sequential order or not.
5. Candidates are not permitted to enter into the examination hall after the commencement of the entrance test or leave the examination hall within two hour.
6. Making any identification mark in the OMR Answer Sheet or writing Roll Number anywhere other than the specified places will lead to disqualification of the candidate.
7. Candidates shall maintain silence inside and outside the examination hall. If candidates are found violating the instructions mentioned herein or announced in the examination hall, they will be summarily disqualified from the entrance test.
8. In case of any dispute, the decision of the Entrance Test Committee shall be final and binding.
9. The OMR Answer Sheet consists of two copies, the Original copy and the Student's copy.

1	Which one of the following is the correct indirect narration of: My mother said to me, "Please go to the shop." A. My mother requested me to go to the shop. B. My mother told me to went to the shop. C. My mother asked me to be going to the shop. D. My mother requested me to be going to the shop. Which of the given four options are true?				a
	a) Only A is true	b) only C is true	c) Both A and B are true	d) Both C and D are true	Only A is true
2	Change the voice of the following sentence: Does she still love you? A. Do you still love by her? B. Are you still loved by her? C. Is she still loved by you? D. Yes, she loves me a lot. Which of the given four options are true?				b
	a) A	b) B	c) C	d) D	B
3	The antonym of 'mayhem' is-				d
	a) havoc	b) chaos	c) scuffle	d) tranquility	tranquility
4	Which of the following words is most similar meaning to 'Intrepid'?				
	a) Bold	b) cowardly	c) Shy	d) Timid	A
5	Which of the following sentences demonstrates correct subject-verb concord? A. The team plays well together. B. The team play well together. C. The team playing well together. D. The team is playing well together.				
	a) A	b) B	c) C	d) D	d
6	How many assembly constituencies are there in Arunachal Pradesh?				a
	a) 60	b) 2	c) 1	d) 63	60
7	What kinds of batteries (cells) are used in electric vehicles?				c
	a) Solar cells	b) Calcium ion cells	c) Lithium ion cells	d) Lead cells	Lithium ion cells
8	Which country recently announced drills involving nuclear weapons?				a
	a) Russia	b) Israel	c) China	d) Iran	Russia
9	According to the 'Solar Policy 2024', what is the targeted installed capacity of solar power in Delhi by 2027?				
	a) 5500 MW	b) 3500 MW	c) 4500 MW	d) 2500 MW	C
10	Which team won the Women's Premier League 2024?				
	a) Rajasthan Royals	b) Royal Challengers Bangalore	c) Mumbai Indians	d) Delhi Capitals	b
11	Which one of the following sources of water is different from the others?				d
	a) Pond	b) Lake	c) Well	d) Stream	Stream
12	Last population census in India was done in				b
	a) 2001	b) 2011	c) 2021	d) 2023	2011
13	Match the following:				c

	<table border="1"> <tbody> <tr> <td>A. Corbett National Park</td> <td>i West Bengal</td> </tr> <tr> <td>B. Manas National</td> <td>ii Uttarakhand</td> </tr> <tr> <td>C. Jaldapara National Park</td> <td>iii Madhya Pradesh</td> </tr> <tr> <td>D. Bandhavgarh National Park</td> <td>iv Assam</td> </tr> </tbody> </table>				A. Corbett National Park	i West Bengal	B. Manas National	ii Uttarakhand	C. Jaldapara National Park	iii Madhya Pradesh	D. Bandhavgarh National Park	iv Assam	
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	a) A-iii B-ii C-iv D-i	b) A-iv B-iii C-i D-ii	c) A-ii B-iv C-i D-iii	d) A-ii B-i C-iv D-iiii	A-ii B-iv C-i D-iii								
14	Namdhapa National Park is located at				Answer option (a,b,c or d)								
	a) East Siang	b) West Kameng	c) Changlang	d) Roing	(C)								
15	Match the following				Answer option (a,b,c or d)								
	<table border="1"> <tbody> <tr> <td>A. P V Sindhu</td> <td>I Cricket</td> </tr> <tr> <td>B. RohitSharma</td> <td>II Boxing</td> </tr> <tr> <td>C. Sania Mirza</td> <td>III Badminton</td> </tr> <tr> <td>D. Mary Kom</td> <td>IV Tennis</td> </tr> </tbody> </table>				A. P V Sindhu	I Cricket	B. RohitSharma	II Boxing	C. Sania Mirza	III Badminton	D. Mary Kom	IV Tennis	
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16	A bus crosses a tree and a 150-meter-long wall in 20 seconds and 50 seconds respectively. What is the speed of the bus?				c								
	a)25 km/hr	b)22 km/hr	c)18 km/hr	d)32 km/hr	c)18 km/hr								
17	If the difference between mean and mode is 48 and median is 12, find the mean from the options below.				a								
	a) 28	b)32	c)38	d)42	a) 28								
18	Look at this series: 7, 10, 8, 11, 9, 12, ... What number should come next?				b								
	a) 7	b) 10	c) 12	d) 13	b) 10								
19	Arrange the following words in a meaningful sequence as in a book <i>1. Index, 2. Contents, 3 Title, 4. Chapters, 5. Introduction</i> and then choose the most appropriate sequence from amongst the alternatives provided below.				d								
	a) 2,3,4,5,1	b) 2,3,4,5,1	c) 5,1,4,2,3	d) 3,2,5,4,1	d) 3,2,5,4,1								
20	Fresh fruit contains 70% water and dry fruit contains 40% water. How much dry fruit can be obtained from 100 kg of fresh fruits?				d								
	a) 40 kg	b) 52 kg	c) 18 kg	d) 50 kg	50 kg								
21	The data of research is				Answer option (a,b,c or d)								

	a) Qualitative only	b) Quantitative only	c) Both a and b	d) Neither a nor b	c
22	What is the difference between a quantitative and qualitative research design?				Answer option (a,b,c or d)
	a) The type of data collected	b) The methods used for data collection	c) The methods used for data analysis	d) All of the above	d
23	Which of the following is not a type of research design?				Answer option (a,b,c or d)
	a) Experimental design	b) Descriptive design	c) Correlational Design	d) Probability Design	d
24	What is a research hypothesis?				Answer option (a,b,c or d)
	a) A tentative explanation for a phenomenon	b) A statement that is proven to be true	c) A prediction of what the researcher expects to find	d) A statement of fact	c
25	The choice of research design is influenced by the				Answer option (a,b,c or d)
	a) The nature of the research problem	b) The audiences for the study	c) The researcher's personal experiences	d) All of the above	d
26	In order to pursue the research, which of the following is priority required?				Answer option (a,b,c or d)
	a) Developing a research design	b) Formulating a research question	c) Deciding about the data analysis procedure	d) Formulating a research hypothesis	b
27	How to judge the depth of any research?				Answer option (a,b,c or d)
	a) By research title	b) By research duration	c) By research objectives	d) By total expenditure on research	c
28	Research is				Answer option (a,b,c or d)
	a) Searching again and again	b) Finding solution to any problem	c) Working in a scientific way to search for truth of any problem	d) None of the above	c

29	A formal document that presents the research objectives, design of achieving these objectives, and the expected outcomes/deliverables of the study is called				Answer option (a,b,c or d)
	a) Research design	b) Research proposal	c) Research hypothesis	d) Research report	b
30	The research is always				Answer option (a,b,c or d)
	a) Verifying the old knowledge	b) Exploring new knowledge	c) Filling the gap between knowledge	d) All of these	d
31	Hypothesis of no difference is known as				Answer option (a,b,c or d)
	a) Simple hypothesis	b) Null hypothesis	c) Composite hypothesis	d) Alternative hypothesis	b
32	The principal of making use of greater homogeneity in groups of experimental units to reduce the experimental error is referred as				Answer option (a,b,c or d)
	a) Replication	b) Randomization	c) Local control	d) None of these	c
33	What are the basic principles of field experiment?				Answer option (a,b,c or d)
	a) Randomization	b) Replication	c) Local control	d) All of these	d
34	Research can be classified as				Answer option (a,b,c or d)
	a) Basic, Applied and Action Research	b) Quantitative and Qualitative Research	c) Philosophical, Historical, Survey and Experimental Research	d) All the above	d
35	To test null hypothesis, a researcher uses				Answer option (a,b,c or d)
	a) t test	b) ANOVA	c) X^2	d) factorial analysis	b
36	Which is the main objective of research?				d
	a) To review the literature	b) To summarize what is already known	c) To get an academic degree	d) To discover new facts or to make fresh interpretation of known facts	To discover new facts or to make fresh interpretation of known facts
37	The specific statistical methods that can be used to summarise or to describe a collection of data is called				b)

	a) Inferential statistics	b) Descriptive statistics	c) Analytical statistics	d) Statistical statistics	Descriptive statistics
38	If the sum of deviations from median is not zero, then a distribution will be				b)
	a) Kurtotic	b) Skewed	c) Symmetrical	d) Normal	Skewed
39	The full form of APA is				
	a. American Psychological Association	b. American Physiological Association	c. American Popular Association	d. American Physiotherapist Association	a
40	What are the characteristic features of fake journals?				
	a. Quick publication in return of money	b. No review	c. No review guidelines	d. Not peer reviewed	a
41	Scopus is an				
	a. Abstract and citation database	b. To maintain academic quality	c. To calculate impact factor	d. H index database	A
42	In which research design are researchers inclined towards evaluating the root cause specific topic?				b
	a) Descriptive research design	b) Diagnostic research design	c) Explanatory research design	d) Correlation research design	b) Diagnostic research design
43	What are the characteristic features of the quantitative research paradigm? A. It is hypothetico-deductive B. It is focused on natural settings C. It lays stress on generalizations to the population characteristics D. It emphasizes numeric data from a large number of people				a
	a)A, C and D only	b) A, B and C only	c) . C, D and E only	d) B, C and D only	a)A, C and D only
44	Which type of research is based on the measurement of quantity or amount?				c
	a) Numerical	b) Qualitative	c) Quantitative	d) Descriptive	c) Quantitative
45	In which of the following research method, process of hypothesis testing optimally safeguards the role of extraneous variables?				a
	a) Experimental method	b) Ex-post facto method	c) Historical method	d) Descriptive survey method	a) Experimental method
46	Formulation of the research problem and framing of the statement of the problem is the-				a

	a) first stage in research process	b) middle stage in research process	c) last stage in research process	d) end of research process	a) first stage in research process
47	In a negatively skewed distribution the position of the Mean with reference to the Median is A. Left of the median B. Right of the median C. Same as median D. Same as mode				D
	a) A & D	b) C only	c)D only	d)A only	A only
48	Match the statistical technique and purpose to use it				D
	A. t test	i relationship between two variable on ranks			
	B. One way ANOVA	ii comparing two groups on one variable			
	C. Spearman correlation	iii. Comparing more than two groups on one factor			
	D. Pearson Correlation	iv relationship between two variable on interval scale			
	a) A-I, B-ii, C-iii, D-iv	b) A-iv, B-iii, C-ii, D-i	c)A-ii, B-iii, C-iv, D-i	d)A-ii, B-iii, C-I, D-iv	A-ii, B-iii, C-I, D-iv
49	Which of the following is TRUE for the statement below? In an independent t-test, the null hypothesis states that – A. The two groups have different means B. The two groups have equal variances C. The two groups have the same means D. The two groups are not related				c
	a) A	b) B	c) C	d) D	c) C
50	Which of the following statement is true? A. Objectives of research are stated in the first chapter of the thesis. B. Researcher must possess analytical ability. C. Variability is the source of problem. D. All of the above				C
	a) A & D	b) C only	c)D only	d)A only	D only
51	The inflorescence of banana is				Answer option (a,b,c or d)
	a) Umbel	b) Catkin	c) Raceme	d) Spadix	(d)
52	Mrig bahar in guava gives fruiting in the month of				Answer option (a,b,c or d)
	a) Feb.-Mar.	b) Aug.- Sept.	c) Nov. – Dec.	d) June- July	(c)
53	Match the following				Answer option
	A.Apple		I J. H. Hale		
	B. Peach		II Ganesh		

	C. Sapota	III Northern spy		(a,b,c or d)	
	D. Pomegranate	IV Kalipatti			
	a) A-I, B-II, C-III, D-IV	b) A-III, B-I, C-IV, D-II	c) A-III, B-I, C-II, D-IV	d) A-I, B-III, C-IV, D-II	(b)
54	Jackfruit belongs to the family of				Answer option (a,b,c or d)
	a) Rutaceae	b) Malvaceae	c) Moraceae	d) Euphorbiaceae	(c)
55	Wooly aphid-resistant rootstock of apple is				Answer option (a,b,c or d)
	a) M-27	b) M-9	c) Crab apple	d) Northen Spy	(d)
56	Match the following				Answer option (a,b,c or d)
	A. Papaya		I Endosperm		
	B. Apple		II Mesocarp		
	C. Jackfruit		III Fleshy thalamus		
	D. Coconut		IV Bract, perianth and seed		
	a) A-I, B-II, C-III, D-IV	b) A-II, B-IV, C-I, D-III	c) A-II, B-III, C-IV, D-I	d) A-II, B-IV, C-III, D-I	Answer (c)
57	Vivipary is reported in				Answer option (a,b,c or d)
	a) Plum	b) Peach	c) Apple	d) Jackfruit	Answer (d)
58	Arkavati is a hybrid variety of				Answer option (a,b,c or d)
	a) Grape	b) Peach	c) Plum	d) Fig	(a)
59	Which of the following is a climacteric fruit				Answer option (a,b,c or d)
	a) Litchi	b) Grape	c) Banana	d) Orange	(c)
60	In the question given below, there are two statements labeled as Assertion (A) and Justification (J). Mark your answer as per the options provided below: Assertion: Gibberellins cause fruits like apple to elongate and improve its shape Justification: GA ₃ is used to speed up the malting process in the brewing industry.				Answer option (a,b,c or d)

	a) both Assertion (A) and Justification (J) are correct and Justification (J) is the correct explanation of the Assertion (A)	b) both Assertion (A) and Justification (J) are correct but Justification (J) is not the correct explanation for Assertion (A)	c) Assertion (A) is correct but Justification (J) is incorrect	d) both Assertion (A) and Justification (J) are incorrect	c
61	Match the following				Answer option (a,b,c or d)
A . Black tip		I Grape			
B. Bitter pit		II Litchi			
C. Fruit cracking		III Mango			
D. Hen and chicken		IV Apple			
	a) A-I, B-II, C-III, D-IV	b) A-IV, B-III, C-II, D-I	c) A-III, B-IV, C-II, D-I	d) A-IV, B-I, C-III, D-II	(C)
62	Sathgudi is a variety of				Answer option (a,b,c or d)
	a) Mandarin	b) Sweet orange	c) Lime	d) Lemon	
63	Which of the following mango variety is mostly exported				Answer option (a,b,c or d)
	a) Totapuri	b) Vanraj	c) Alphonso	d) Neelum	
64	Match the following				Answer option (a,b,c or d)
A. IIHR		I Srinagar (J & K)			
B. IARI		II Bangalore (Karnataka)			
C. IIVR		III New Delhi			
D. CITH		IV Varanasi (U.P.)			
	a) A-II, B-IV, C-I, D-III	b) A-II, B-IV, C-I, D-III	c) A-II, B-III, C-IV, D-I	d) A-I, B-II, C-III, D-IV	Answer (C)
65	Triple sigmoid growth curve is found in				Answer option (a,b,c or d)
	a) Pear	b) Walnut	c) Sapota	d) Kiwi fruit	
66	Sarder guava (L-49) is a chance seedling selection of				Answer option

					(a,b,c or d)										
	a) Arka Amulya	b) Shweta	c) Allahabad Safeda	d) Apple colour	(c)										
67	Pineapple contains an enzyme called				Answer option (a,b,c or d)										
	a) Tannins	b) Prunasin	c) Amygdalin	d) Bromalin	(d)										
68	A fruit develops from ovaries of many flowers in an inflorescence is known as				Answer option (a,b,c or d)										
	a) Dry fruit	b) Multiple fruit	c) Aggregate fruit	d) Simple fruit	(b)										
69	<p>In the question given below, there are two statements labeled as Assertion (A) and Justification (J). Mark your answer as per the options provided below:</p> <p>Assertion (A): In plants, apomixis is a form of asexual reproduction that mimics sexual reproduction.</p> <p>Justification (J): Apomixis involves the production of seeds without the fusion of gametes.</p>				Answer option (a,b,c or d)										
	a) both Assertion (A) and Justification (J) are correct and Justification (J) is the correct explanation of the Assertion (A)	b) both Assertion (A) and Justification (J) are correct but Justification (J) is not the correct explanation for Assertion (A)	c) Assertion (A) is correct but Justification (J) is incorrect	d) both Assertion (A) and Justification (J) are incorrect	a										
70	Match the following				Answer option (a,b,c or d)										
	<table border="1"> <thead> <tr> <th>PGRs/Vitamins</th> <th>Precursors</th> </tr> </thead> <tbody> <tr> <td>A. Vit. A</td> <td>I. Carotene</td> </tr> <tr> <td>B. Auxin</td> <td>II. Tryptophan</td> </tr> <tr> <td>C. Ethylene</td> <td>III. Methionine</td> </tr> <tr> <td>D. Gibberellin</td> <td>IV. 2- Acetyl COA</td> </tr> </tbody> </table>		PGRs/Vitamins	Precursors	A. Vit. A	I. Carotene	B. Auxin	II. Tryptophan	C. Ethylene	III. Methionine	D. Gibberellin	IV. 2- Acetyl COA			
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	a) A-I, B-II, C-III, D-IV	b) A-III, B-I, C-IV, D-II	c) A-III, B-I, C-II, D-IV	d) A-I, B-III, C-IV, D-II	(a)										
71	Mutant variety produced through gamma radiation in papaya is				Answer option (a,b,c or d)										
	a) Pusa Giant	b) Pusa Dwarf	c) Pusa Nanha	d) CO 1	(c)										
72	Which of the following fruit is known as “King of arid and semi-arid regions”?				Answer option (a,b,c or d)										

	a) Jackfruit	b) Ber	c) Aonla	d) Sapota	(b)
73	Winter banana is a variety of				Answer option (a,b,c or d)
	a) Mango	b) Banana	c) Guava	d) Apple	(d)
74	“Tatura trellis” planting is followed in				Answer option (a,b,c or d)
	a) Walnut	b) Mango	c) Grape	d) Litchi	(c)
75	<p>Choose the correct option: A - Golden revolution is related to Horticulture and Honey A- Golden revolution is related to only Horticulture B- White revolution is related to milk C- Green revolution is related to Forestry</p> <p>In the light of the above Statements, choose the most appropriate answer from the options given below:</p>				Answer option (a,b,c or d)
	a) Both statement A & B are true	b) Only statement B is true	c) Only statement C is false	d) Both statement A & C are true	d
76	The genetic classification of banana was given by				Answer option (a,b,c or d)
	a) Burns and Prayag (1911)	b) Haberlandt (1948)	c) Simmonds and Shepherd (1955)	d) Cheema and Mukherji (1907)	(c)
77	“Ganesh” variety of pomegranate was developed by				Answer option (a,b,c or d)
	a) G. S. Cheema	b) G. S. Randhawa	c) Deshmukh	d) W. B. Hayes	(a)
78	“Kinnow” mandarin is cross between				Answer option (a,b,c or d)
	a) Willow leaf X King	b) King X Willow leaf	c) Satsuma X Willow leaf	d) King X Valencia	b
79	D leaf is associated with				Answer option (a,b,c or d)
	a) Pineapple	b) Pear	c) Plum	d) Citrus	(a)
80	Which of the following is the ethylene absorbent				Answer option (a,b,c or d)

	a) KMnO ₄	b) KCl	c) KNO ₃	d) K ₂ SO ₄	(a)
81	The inception of ripening in grapes is termed as				Answer option (a,b,c or d)
	a) Colour break	b) Turning stage	c) Verasion	d) Climacteric	(c)
82	Which of the following is the rich source of riboflavin				Answer option (a,b,c or d)
	a) Ber	b) Aonla	c) Grape	d) Bael	(d)
83	<p>In the question given below, there are two statements labeled as Assertion (A) and Justification (J). Mark your answer as per the options provided below:</p> <p>Assertion (A). All fruits that we eat are not real fruits. Justification (J). In few plants, floral parts like thalamus or pedicel also, contribute to fruit formation. Such fruits are called false fruits.</p>				Answer option (a,b,c or d)
	a) A and J are true and J is the correct explanation of A	b) A is false, J is true	c) A and J are true and J is not the correct explanation of A	d) A is true J is false	a
84	Fruit type of cauliflower is				Answer option (a,b,c or d)
	a) Berry	b) Pepo	c) Pod	d) Siliqua	d
85	Which toxic substance is found in spinach?				Answer option (a,b,c or d)
	a) Solasodine	b) Serotonin	c) Solanine	d) Saponine	d
86	' <i>Trichosanthes anguina</i> ' is the botanical name of				Answer option (a,b,c or d)
	a) Sponge gourd	b) Ridge gourd	c) Snake gourd	d) Bottle gourd	c
87	Which one of the following vegetable is a modified stem?				Answer option (a,b,c or d)
	a) Turnip	b) Potato	c) Radish	d) Beet	b
88	'BER' is a physiological disorder of				Answer option (a,b,c or d)
	a) Brinjal	b) Chilli	c) Okra	d) Tomato	d
89	God-sent vegetable is?				Answer option (a,b,c or d)

	a) Sweet potato	b) Chekurmanis	c) Winged bean	d) Spanish	c
90	Which vegetable is often cross pollinated?				Answer option (a,b,c or d)
	a) Brinjal	b) Asparagus	c) Okra	d) Cauliflower	c
91	Choose the correct statement of the following: A Asparagus-leaves B Leek- leaf blade C Potato-root D Celery-petiole				Answer option (a,b,c or d)
	a) a only	b) Both b & c	c) d only	d) None	c
92	Which one of the following vegetable is a flower?				Answer option (a,b,c or d)
	a) Broccoli	b) Cabbage	c) Knol khol	d) Lettuce	a
93	The toxic substance present in Tapioca is				Answer option (a,b,c or d)
	a) Hydrocyanic acid	b) Phytic acid	c) Oxalic acid	d) Haemaglutine	a
94	Which one of the following is known as 20 th century vegetable?				Answer option (a,b,c or d)
	a) Winged bean	b) Cluster bean	c) French bean	d) Lima bean	a
95	Select the correct answers for matching pairs:				Answer option (a,b,c or d)
	A Breeder seed		i blue		
	B Foundation seed		ii purple		
	C Registered seed		iii white		
	D Certified seed		iv golden brown		
	a) ii, i, iv, iii	b) ii, i, iii, iv	c) iv, iii, ii, i	d) iv, iii, i, ii	c
96	Browning of cauliflower is due to deficiency of				Answer option (a,b,c or d)
	a) Boron	b) Ca	c) Mg	d) Mo	a
97	Orange colour in carrot is due to				Answer option (a,b,c or d)
	a) Anthocyanin	b) Carotene	c) Lycopene	d) Capsicin	b

98	Pungency in cabbage leaves is due to				Answer option (a,b,c or d)
	a) Sinigrin	b) Solanine	c) Solasodine	d) Serotonin	a
99	Vegetable having highest chromosome number ($2n=2x$)				Answer option (a,b,c or d)
	a) Cucumber	b) Pumpkin	c) Watermelon	d) Bitter gourd	b
100	Quercetin is present in				Answer option (a,b,c or d)
	a) Watermelon	b) Carrot	c) Muskmelon	d) Onion	d
101	Momordicin is present in				Answer option (a,b,c or d)
	a) Cucumber	b) Pumpkin	c) Watermelon	d) Bitter gourd	d
102	'New leaf' is a transgenic variety of				Answer option (a,b,c or d)
	a) Potato	b) Sweet potato	c) Tomato	d) Okra	a
103	Edible part of Globe Artichoke is				Answer option (a,b,c or d)
	a) Blub	b) Flower bud	c) Spear	d) Pod	b
104	Malic acid is present in				Answer option (a,b,c or d)
	a) Tomato	b) Potato	c) Carrot	d) None	c
105	What is the effect of ethylene in Cucumber?				Answer option (a,b,c or d)
	a) Fibrousness	b) Blanching	c) Bitterness	d) Degreening	d
106	Select the correct answers for matching pairs:				Answer option (a,b,c or d)
	A Brinjal		i Apiin		
	B Tomato		ii Lutein		
	C Celery		iii Solasodine		
	D Lettuce		iv Tomatine		
	a) iii, iv, ii, i	b) iii, ii, iv, i	c) iii, iv, i, ii	d) i, iii, iv, ii	c

10 7	Okra is the rich source of				Answer option (a,b,c or d)
	a) Iron	b) Iodine	c) Calcium	d) Carbohydrate	b
10 8	'Pusa Harit' is a variety of				Answer option (a,b,c or d)
	a) Bittergourd	b) Pea	c) Palak	d) None	C
10 9	Green leafy vegetables are rich source of				Answer option (a,b,c or d)
	a) Malic acid	b) Citric acid	c) Folic acid	d) None	c
11 0	Choose the correct statement of the following: A Pusa Ageti is a variety of Radish B Arka Bahar is a variety of tomato C Pant Uphar is a variety of brinjal D Arka Pragati is a variety of onion				Answer option (a,b,c or d)
	a) a only	b) Both b & c	c) d only	d) None	c
11 1	Tip burn disease of lettuce is due to				Answer option (a,b,c or d)
	a) Ca	b) Boron	c) Mn	d) Mg	a
11 2	'U' triangle is associated with				Answer option (a,b,c or d)
	a) Cole crops	b) Potato	c) Cucurbits	d) Amaranthus	a
11 3	Single seeded vegetable is				Answer option (a,b,c or d)
	a) Cabbage	b) Cauliflower	c) Chow Chow	d) None	c
11 4	Which of the following vegetable is C ₄ plant?				Answer option (a,b,c or d)
	a) Lettuce	b) Celery	c) Amaranthus	d) Spinach	c
11 5	Which one of the following has highest carbohydrate content?				Answer option (a,b,c or d)
	a) Tapioca	b) Potato	c) Sweet potato	d) Yam	a

11 6	Metaxenia is found in				Answer option (a,b,c or d)
	a) Cucumber	b) Potato	c) Onion	d) Tomato	a
11 7	Edible part of Jerusalem artichoke is				Answer option (a,b,c or d)
	a) Root tuber	b) Flower bud	c) Stem	d) Leaf stalk	a
11 8	'Phomopsis blight' is a major disease of				Answer option (a,b,c or d)
	a) Brinjal	b) Pea	c) Tomato	d) None	a
11 9	IIVR is located at				Answer option (a,b,c or d)
	a) Varanasi	b) Lucknow	c) Kanpur	d) Ajmer	a
12 0	Chromosome no. (2n) of garlic is				Answer option (a,b,c or d)
	a) 14	b) 16	c) 22	d) 24	b
12 1	Select the correct answers for matching pairs:				Answer option (a,b,c or d)
	A Tuber		i legume		
	B Garlic		ii leafy		
	C Pea		iii bulb		
	D Spinach		iv sweet potato		
	a) i, iii, iv, iii	b) iv, ii, iii, i	c) ii, i, iii, iv	d) iv, iii, i, ii	d
12 2	Chromosome no. (2n) of lima bean				Answer option (a,b,c or d)
	a) 20	b) 22	c) 24	d) 26	b
12 3	Which one of the following vegetable is perennial?				Answer option (a,b,c or d)
	a) Asparagus	b) Cauliflower	c) Indian bean	d) Garlic	a
12 4	'Purple blotch' is a major disease of				Answer option (a,b,c or d)
	a) Onion	b) Tomato	c) Chilli	d) Brinjal	a
12 5	'Benincasa hispida' is the botanical name of				Answer option (a,b,c or d)

	a) Wax gourd	b) Ivy gourd	c) Snake gourd	d) Bittergourd	a
12 6	'Freedom 2' is a transgenic variety of				Answer option (a,b,c or d)
	a) Potato	b) Squash	c) Tomato	d) Okra	b
12 7	Edible part of cabbage is				Answer option (a,b,c or d)
	a) Leaf	b) Head	c) Root	d) Stem	b
12 8	Which one of the vegetable is cross pollinated?				Answer option (a,b,c or d)
	a) Cauliflower	b) Cabbage	c) Radish	d) All	d
12 9	Lettuce is a member of family				Answer option (a,b,c or d)
	a) Fabaceae	b) Rutaceae	c) Asteraceae	d) Labiatae	c
13 0	Brown anther type of male sterility is found in				Answer option (a,b,c or d)
	a) Onion	b) Carrot	c) Radish	d) Cauliflower	b
13 1	'Akashin' is a physiological disorder of				Answer option (a,b,c or d)
	a) Tomato	b) Potato	c) Radish	d) Okra	c
13 2	Edible part of Cauliflower is				Answer option (a,b,c or d)
	a) Head	b) Curd	c) Knob	d) Spear	b
13 3	Choose the correct statement of the following: A Pusa Purple Cluster variety of Brinjal is resistant to bacterial wilt B Kufri Badhsah is a variety of tomato C Pusa Sawani is a variety of onion D Arka Meghali is a variety of Carrot				Answer option (a,b,c or d)
	a) a only	b) Both b & c	c) d only	d) None	a
13 4	Selfing and massing technique is utilized in				Answer option (a,b,c or d)
	a) Onion	b) Carrot	c) Radish	d) Cauliflower	a

13 5	'Pusa Meghali' is an improved variety of				Answer option (a,b,c or d)
	a) Carrot	b) Radish	c) Beetroot	d) Turnip	a
13 6	Little leaf of brinjal disease is caused by				Answer option (a,b,c or d)
	a) Fungus	b) Bacteria	c) Virus	d) Mycoplasma	d
13 7	Onion is propagated through				Answer option (a,b,c or d)
	a) Seed	b) Clove	c) Root	d) Stem	a
13 8	Broccoli is a				Answer option (a,b,c or d)
	a) Cole crop	b) Root crop	c) Fruit crop	d) Legume crop	a
13 9	'Diamond black moth' is a serious pest of				Answer option (a,b,c or d)
	a) Cauliflower	b) Cabbage	c) Knol khol	d) Broccoli	b
14 0	Select the correct answers for matching pairs:				Answer option (a,b,c or d)
	A Potato		i forking		
	B Carrot		ii hypocotyls necrosis		
	C Bean		iii brown heart		
	D Radish		iv greening		
	a) ii, iv, iii, i	b) iv, i, ii, iii	c) i, ii, iv, iii	d) iii, i, iv, ii	b
14 1	Onion belongs to the family				Answer option (a,b,c or d)
	a) Amaryllidaceae	b) Araceae	c) Liliaceae	d) Solanaceae	a
14 2	Self-incompatibility is found in				Answer option (a,b,c or d)
	a) Carrot	b) Watermelon	c) Cabbage	d) Muskmelon	c
14 3	Sulforaphane found in				Answer option (a,b,c or d)
	a) Lettuce	b) Cabbage	c) Muskmelon	d) Broccoli	d
14 4	Heterostyle is found in				Answer option

					(a,b,c or d)
	a) Brinjal	b) Tomato	c) Potato	d) None	a
14 5	'Gold fleck' is a physiological disorder of				Answer option (a,b,c or d)
	a) Tomato	b) Potato	c) Brinjal	d) Okra	a
14 6	IIHR is established at				Answer option (a,b,c or d)
	a) Lucknow	b) Bangalore	c) New Delhi	d) Jodhpur	b
14 7	'Virginia Savoy' is a variety of				Answer option (a,b,c or d)
	a) Cabbage	b) Lettuce	c) Spinach	d) Amaranthus	b
14 8	Gynoecious sex form is found in				Answer option (a,b,c or d)
	a) Cucumber	b) Muskmelon	c) Chow Chow	d) Pumpkin	a
14 9	Which one of the following is a day neutral plant?				Answer option (a,b,c or d)
	a) Tomato	b) Radish	c) Spinach	d) Sweet potato	a
15 0	'Seed plot' technique is followed for seed production in				Answer option (a,b,c or d)
	a) Potato	b) Tomato	c) Sweet potato	d) Tapioca	a