

Test Booklet No. _____

This booklet consists of 150 questions and pages.

RGUPET/2025/1004/108

RGUPET 2025
Common Entrance Test, 2025
DOCTOR OF PHILOSOPHY IN HORTICULTURE

Full Marks: 150

Time: 3 Hours

Roll No.

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Day and Date of Examination: _____

Signature of Invigilator(s) _____

Signature of Candidate _____

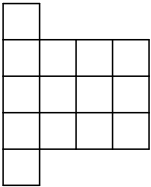
General Instructions:

PLEASE READ ALL THE INSTRUCTIONS CAREFULLY BEFORE MAKING ANY ENTRY.

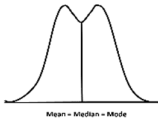
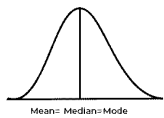
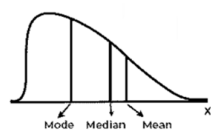
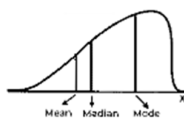
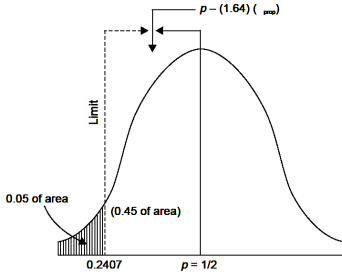
1. DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO.
2. Candidate must write his/her Roll Number on the space provided.
3. This Test Booklet contains 150 Multiple Choice Questions (MCQs) from the concerned subject. Each question carries 1 mark.
4. Please check the Test Booklet to verify that 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 before completion of Examination.
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	The “Mission Sudarshan Chakra”, recently launched by the Prime Minister of India, primarily relates to				development of a multilayered air and missile defence system
	a) a national renewable energy mission	b) a national digital currency mission	c) development of a multilayered air and missile defence system	d) a national mission to modernise Indian Railways	(c)
2	“Pushpak”- a national mission being implemented by the Indian Institute of Technology, Bombay is related to the development of				Drone technology
	a) Helicopters	b) Dairy technology	c) Drone technology	d) Artificial intelligence	(c)
3	North East India’s first underwater tunnel project, announced in 2024, is proposed to connect				Numaligarh and Gohpur
	a) Dibrugarh and Dhemaji	b) Jorhat and Majuli	c) Numaligarh and Gohpur	d) Guwahati and North Guwahati	(c)
4	Which of the following statements are correct? A. Canada hosted the 51 st G7 summit in 2025. B. Four players were honoured with the Khel Ratna Award 2025. C. Sweden was ranked first in Global Innovation Index 2024. D. Operation Sindoor was Launched by India to attack terrorist bases in Pakistan on 7 th May 2025.				(a)
	a) A, B and D	b) A,B and C	c) Only A	d) All of the above	A, B and D
5	Which of the followings are correct? A. Lip Butan has been appointed as the new CEO of Intel in March 2025 B. Shri C P Radhakrishnan has been appointed as the Vice President of India C. India’s rank in the Human Development Index 2025 released by UNDP is 99 D. India has become the 2 nd largest road network in the World.				(d)
	a) A and B only	b) A, B and C only	c) A, C and D only	d) A, B, D only	A, B, D only
6	Which of the following sentences is false? A. Palk Strait joins India and Sri Lanka B. The Radcliffe Line is between India and Bangladesh C. The MacMohan Line separates India and China D. The Durand Line is between Iran and Afghanistan.				
	a) A, B	b) B, C	c) C, D	d) B, D	(d)
7	Assertion (A): Eclipses do not occur on all full moon and new moon days. Reason (R): The moon revolves round the earth in an elliptical orbit.				A and R are true but R doesnot explain A
	a) A and R are true and R correctly explains A.	b) A and R are true but R does not explain A.	c) A is true R is false	d) R is true but A is false	(b)

8	Right to equality is a-				Fundamental right
	a) fundamental right	b) social right	c) cultural right	d) legal right	(a)
9	The author of the book "Midnight's Children" is-				Salman Rushdie
	a) Shakespeare	b) Leo Tolostoy	c) Salman Rushdie	d) R K Narayan	(c)
10	Match the organizations with their headquarters: A. UNESCO B. WHO C. UNICEF D. IMF 1. New York 2. Paris 3. Geneva 4. Washington D.C.				
	a) A-3, B-2, C-4, D-1	b) A-2, B-3, C-1, D-4	c) A-2, B-4, C-3, D-1	d) A-1, B-3, C-2, D-4	(b)
11	He said, "Happy new year!" The correct indirect speech of the above is-				He wished me a happy new year.
	a) He said the new year was happy.	b) He wished me a happy new year.	c) He said to me that happy new year.	d) I was wished a happy new year.	(b)
12	Identify the correct sentence(s) from the following. A. One of my friends is a doctor. B. I don't know nothing about her. C. It is a two-hour journey. D. We will be definitely there at the yesterday's programme.				
	a) A, B	b) B, C	c) A, C	d) C, D	(c)
13	"She drank the _____ milk that was there in the flask." The appropriate quantifier to fill in the blank is-				little
	a) all	b) little	c) sour	d) few	(b)
14	"a/ great /and/ reality/their/ theory/in/there/ disparity/is" The correct reordered meaningful sentence with the above jumbled words/phrases is- P. There is a great theory and their reality in disparity. Q. There is a great disparity in their theory and reality. R. Their great disparity is in a theory and reality there. S. Their great theory is a reality and in disparity there.				There is a great disparity in their theory and reality.
	a) P	b) Q	c) R	d) S	(b)
15	The correct match of synonyms and antonyms is: A. Futile B. Generic C. Hinder D. Inception i. Help ii. Effective iii. Individual iv. Termination				A-ii, B-iii, C-i, D-iv
	a) A-i, B-ii, C-iii, D-iv	b) A-iii, B-ii, C-iv, D-iii	c) A-iv, B-iii, C-i, D-ii	d) A-ii, B-iii, C-i, D-iv	(d)
16	The total number of squares in the following figure is:				22

					
	a) 24	b) 20	c) 22	d) 18	(c)
17	Fill in the blank in the following pattern. ELFY GLHX ILJW ----- MLNU				KLLV
	a) KLLV	b) KLMX	c) JLLV	d) JLMX	a)
18	Raghav introduces Vineet as the only son of the only brother of his father's wife. How Raghav and Vineet are related?				cousin
	a) brother	b) cousin	c) uncle	d) son-in-law	(b)
19	Which two numbers should be interchanged to make the given equation mathematically correct? $3 \times 6 + 72 \div 8 - 24 = 12$				6, 8
	a) 6, 8	b) 6, 24	c) 3, 8	d) None	(a)
20	If BANKER is coded as CAOKFR, then how would LAWYER be coded?				MAXYFR
	a) LBWZES	b) LBWYFR	c) MAXYFR	d) MAXZES	c)
21	Same error occurs at the same size in every measurement, and such errors can only be eliminated either by thinking through the sources of problems and removing them. This type of error is termed as:				
	a) Random errors	b) Systematic errors	c) Cascading errors	d) Perpetual errors	b
22	Hypothesis-driven research begins with a hypothesis. A hypothesis is a statement about the world that can be true or false, and whose truth is being tested.				
	a) A valid hypothesis is based on 'that exists'	b) A hypothesis is a positive conclusion	c) A hypothesis can never be tested	d) A valid hypothesis must be falsifiable	d
23	Which of the following statements that could be considered as valid scientific hypotheses? A. Eating two ounces of olive oil a day decreases the odds of contracting heart disease. B. What is the best fertilizer to use to get large and tasty tomatoes? C. Macs are better than PCs. D. Briar's Aspirin cures headaches faster than RCS Aspirin.				Answer
	a) A, B	b) A, B, C	c) A, D	d) B, C	c
24	Relate the 'function or relationship' (A) and 'comment' (B) and select the appropriate answer A: Find how the speed of sound in air at fixed pressure depends upon air temperature. B: The control variable is temperature, and the response variable is sound speed.				Answer

	a) Functional relationship is correct and the comment is true for the relationship	b) Functional relationship is incorrect but the comment is true for the relationship	c) Functional relationship is correct but the comment is false for the relationship	d) Neither the functional relationship is correct nor the comment is true	a
25	Relate 'sampling design' and its 'method' Sampling Design Method A. Deliberate i. Sample collected as information received and survey progresses B. Simple random ii. sample drawn from a heterogeneous group C. Stratified iii purposive selection of particular units D. Sequential iv. very item in the population has an equal chance of inclusion				Answer
	a) A-iii, B-iv, C-ii, D-i	b) A-ii, B-iv, C-iii, D-i	c) A-i, B-iii, C-ii, D-iv	d) A-iii, B-ii, C-iv, D-i	a
26	Number of observations in a normal distribution is 1000. How many observations will be there between $\mu+1\sigma$ and $\mu-1\sigma$				Answer
	a) 500	b) 680	c) 720	d) 950	b
27	Which of the following are reasons for citing a paper? A. use its ideas, definitions, terms in a Research B. provides upcoming facts regarding undergoing Research Question. C. to adopt part/full methodology it adopted for a certain task. D. to refer to data also used in Current Research.				Answer
	a) A, B, C	b) B, C, D	c) A, C, D	d) A, B, D	c
28	Scholars who wish to meet publication expectations mostly resort to a variety of techniques to increase their output and crank up their citation ranking, which are not considered ethical. Identify these techniques: A. Gift authorship B. Extensive experiments C. Salami Slicing D. Extensive referencing				Answer
	a) A, B, C	b) A, B, D	c) B, C, D	d) A, C, D	d
29	Match the references (APA 7 style):				Answer
	A. Journal Article	i. Edwards, A. A., Steacy, L. M., Siegelman, N., Rigobon, V. M., Kearns, D. M., Rueckl, J. G., & Compton, D. L. (2022). Unpacking the unique relationship between set for variability and word reading development: Examining word- and child-level predictors of performance. <i>Journal of Educational Psychology</i> , 114(6), 1242–1256. https://doi.org/10.1037/edu0000696			
	B. Authored Book	ii. Levenson, H., Jinich, S., Vaz, A., & Rousmaniere, T. (2025). <i>Deliberate practice in emotionally focused couple therapy</i> . American Psychological Association. https://doi.org/10.1037/0000436-000			
	C. Webpage	iii. Zeleke, W. A., Hughes, T. L., & Drozda, N. (2020). Home–school collaboration to promote mind–body health. In C. Maykel & M. A. Bray (Eds.), <i>Promoting mind–body health in schools: Interventions for mental health professionals</i> (pp. 11–26). American Psychological Association. https://doi.org/10.1037/0000157-002			

	D. Edited Book Chapter		iv. Taras, Z. (2024, May 30). <i>Situational irony can be funny, tragic or even terrifying</i> . howstuffworks. https://entertainment.howstuffworks.com/arts/literature/situational-irony.htm																																										
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30	Which one of the following refers to positive skewness?																																												
	a) 	b) 	c) 	d) 	c																																								
31	How much is the degree of freedom for the following data table?				Answer																																								
	<table><tr><th>S. No.</th><th>X_i</th><th>Hypothesised mean $m_{H_0} = 578 \text{ kg.}$</th><th>$D_i = (X_i - \mu_{H_0})$</th><th>$D_i^2$</th></tr><tr><td>5</td><td>572</td><td>578</td><td>-6</td><td>36</td></tr><tr><td>6</td><td>578</td><td>578</td><td>0</td><td>0</td></tr><tr><td>7</td><td>570</td><td>578</td><td>-8</td><td>64</td></tr><tr><td>8</td><td>572</td><td>578</td><td>-6</td><td>36</td></tr><tr><td>9</td><td>596</td><td>578</td><td>18</td><td>324</td></tr><tr><td>10</td><td>544</td><td>578</td><td>-34</td><td>1156</td></tr><tr><td>$n = 10$</td><td></td><td></td><td>$\sum D_i = -60$</td><td>$\sum D_i^2 = 1816$</td></tr></table>				S. No.	X_i	Hypothesised mean $m_{H_0} = 578 \text{ kg.}$	$D_i = (X_i - \mu_{H_0})$	D_i^2	5	572	578	-6	36	6	578	578	0	0	7	570	578	-8	64	8	572	578	-6	36	9	596	578	18	324	10	544	578	-34	1156	$n = 10$			$\sum D_i = -60$	$\sum D_i^2 = 1816$	
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32	Find out the Null hypothesis for the given table				Answer																																								
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33	What will be sum of the deviations of observations from the regression line?				Answer																																								
	a) $-\infty$	b) 0	c) $+\infty$	d) undefined	b																																								
34	Derive from the following diagram				Answer																																								
	 Assertion: In this normal distribution 5 percent of the sample are rejected. Justification: It shows a two tailed hypothesis test model at 90 percent confidence level																																												
	a) Assertion is true and	b) Assertion is false but justification	c) Assertion is true and justification is	d) Assertion is true and	d																																								

	justification explains the Assertion	explains the Assertion	true but does not explain the Assertion	justification for the Assertion is incorrect	
35	Match into pairs for the Statistical method with appropriate details mentioned:				Answer
	Statistical method		Details		
	A. Correlation		i. Order 2, 3, 4,		
	B. Polynomial regression		ii. More than two population on same characteristics		
	C. ANOVA		iii. Test of homogeneity		
	D. Chi square		iv. Requires only two variables		
	a) A-i, B-ii, C-iii, D-iv	b) A-iv, B-i, C-ii, D-iii	c) A-iv, B-ii, C-i, D-iii	d) A-iii, B-i, C-ii, D-iv	b
36	In a double-slit experiment, if the distance between slits is doubled, what happens to the fringe spacing on the screen?				
	a) Fringe spacing halves	a) Fringe spacing doubles	c)Fringe spacing remains the same	d)Fringe spacing quadruples	(a)
37	A block slides down a frictionless inclined plane. Which of the following statements is true?				
	a) Mechanical energy is not conserved	b) Potential energy decreases, kinetic energy increases	c) Kinetic energy decreases	d)Acceleration is zero	(b)
38	Which of the following is true for a photon in a vacuum?				
	a) It has mass but no energy	b) It has energy but no rest mass	c) It has rest mass and energy	d) It can be accelerated by a force	(b)
39	In which of the following compounds is the metal-metal bonding present ?				
	a) NaCl	b) ZnO	c) Al ₂ O ₃	d) Cr ₂ Cl ₆	(d)
40	A solution contains 0.1 mol of a non-volatile solute in 1 L of water at 298 K. Calculate the osmotic pressure:				
	a) 2.44 atm	b) 1.33 atm	c) 0.22 atm	d) 0.11 atm	(a)
41	According to Henry's law, the solubility of a gas in a liquid is:				
	a) Independent of pressure.	b) Directly proportional to pressure.	c) Inversely proportional to pressure.	d) Exponential with pressure.	(b)
42	If $f(x) = \begin{cases} x-2 /(x-2), & x \neq 0 \\ 0, & \text{otherwise} \end{cases}$				
	a) -1	b) 1	c) 0	d) does not exist	d
43	If $y = x^5 - 5x^4 + 5x^3 - 1$, then the value of $\frac{d^6y}{dx^6}$ is				
	a) $120x - 120$	b) 120	c) 0	d) cannot be evaluated.	c

44	A group which satisfies commutativity property is known as												
	a) Abelian group	b) Quotient group	c) Coset group	d) Normal group	a								
45	Let M^T denotes transpose matrix of M and I is identity matrix. Match the following:												
	<table><tr><td>A. M is idempotent</td><td>i. $M = M^T$</td></tr><tr><td>B. M is symmetric</td><td>ii. $M = -M^T$</td></tr><tr><td>C. M is skew-symmetric</td><td>iii. $M^2 = I$</td></tr><tr><td>D. M is involution</td><td>iv. $M^2 = M$</td></tr></table>		A. M is idempotent	i. $M = M^T$	B. M is symmetric	ii. $M = -M^T$	C. M is skew-symmetric	iii. $M^2 = I$	D. M is involution	iv. $M^2 = M$			
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	a) A-iv, B-i, C-iii, D-ii	b) A-i, B-iv, C-ii, D-iii	c) A-iv, B-i, C-ii, D-iii	d) A-iv, B-ii, C-i, D-iii	c								
46	Relate the statements: A: Assertion—SSDs are faster than HDDs. B: Justification—Because SSDs use flash memory instead of spinning disks.												
	a) Both A and B are true, and B is the correct explanation of A	b) Both A and B are true, but B is NOT the correct explanation of A	c) A is true, but B is false	d) A is false, but B is true	(a)								
47	Match the pairs:												
	<table><tr><td>A. Machine Learning</td><td>i Enables machines to understand and process human language</td></tr><tr><td>B. Natural Language Processing (NLP)</td><td>ii Uses data to learn and improve predictions automatically</td></tr><tr><td>C. Computer Vision</td><td>iii Analyzes and interprets visual data like images and videos</td></tr><tr><td>D. Expert Systems</td><td>iv Mimics human decision-making using rules and knowledge base</td></tr></table>		A. Machine Learning	i Enables machines to understand and process human language	B. Natural Language Processing (NLP)	ii Uses data to learn and improve predictions automatically	C. Computer Vision	iii Analyzes and interprets visual data like images and videos	D. Expert Systems	iv Mimics human decision-making using rules and knowledge base			
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	a) A – iv, B – i, C – iii, D – ii.	b) A – iv, B – iii, C – i, D – ii.	c) A – ii, B – i, C – iii, D – iv.	d) A – iii, B – i, C – iv, D – ii.	(c)								
48	Which programming language is widely used for AI and ML development?												
	a) Python	b) JavaScript	c) C#	d) HTML	(a)								
49	Which of the following statement is true:												
	a) A byte is made up of 16 bits.	b) ROM is volatile memory that loses data when power is switched off.	c) A compiler translates high-level code into machine code line by line.	d) A firewall is used to protect a computer network from unauthorized access.	(d)								
50	What is a network of networks called?												
	a) Intranet	b) Internet	c) WAN	d) LAN	(b)								
51	Select the correct answers for the matching pairs:												
	<table><tr><td>A. Breeder seed</td><td>i. Blue</td></tr><tr><td>B. Foundation seed</td><td>ii. Purple white</td></tr><tr><td>C. Registered seed</td><td>iii. White</td></tr><tr><td>D. Certified seed</td><td>iv. Golden brown</td></tr></table>		A. Breeder seed	i. Blue	B. Foundation seed	ii. Purple white	C. Registered seed	iii. White	D. Certified seed	iv. Golden brown			
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	a) A-ii, B-i, C-iv, D-iii	b)A-ii, B-i, C-iii, D-iv	c)A-iv, B-iii, C-ii, D-i	d) A-iv, B-iii, C-i, D-ii	c								
52	Isolation distance for certified seed production of cauliflower is												
	a) 1000m	b) 1600 m	c) 500 m	d) 800m	a								
53	Choose the correct statement of the following:												
	<table><tr><td>A. Brinjal</td><td>i. Apiin</td></tr><tr><td>B. Tomato</td><td>ii. Lutein</td></tr><tr><td>C. Celery</td><td>iii. Solasodine</td></tr><tr><td>D. Lettuce</td><td>iv. Tomatine</td></tr></table>				A. Brinjal	i. Apiin	B. Tomato	ii. Lutein	C. Celery	iii. Solasodine	D. Lettuce	iv. Tomatine	
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54	'BER' of tomato is due to the deficiency of												
	a) Ca	b) Boron	c) Mo	d) Mn	a								
55	Climateric vegetable is												
	a) Cucumber	b) Brinjal	c) Tomato	d) Pumpkin	c								
56	'Sauerkraut' is prepared from												
	a) Sweet potato	b) Cassava	c) Cabbage	d) Potato	c								
57	Select the correct answers for the matching pairs:												
	<table><tr><td>A. Tuber</td><td>i. Legume</td></tr><tr><td>B. Garlic</td><td>ii. leafy</td></tr><tr><td>C. Pea</td><td>iii. Bulb</td></tr><tr><td>D. Spinach</td><td>iv. Sweet potato</td></tr></table>				A. Tuber	i. Legume	B. Garlic	ii. leafy	C. Pea	iii. Bulb	D. Spinach	iv. Sweet potato	
A. Tuber	i. Legume												
B. Garlic	ii. leafy												
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D. Spinach	iv. Sweet potato												
	a)A-i, B-iii, C-iv, D-ii	(b) A-iv, B-ii, C-iii, D-i	(c) A-ii, B-i, C-iii, D-iv	(d) A-iv, B-iii, C-i, D-ii	d								
58	Choose the correct statement of the following:												
	A. Cabbage - Head B.Onion - Seed C.Carrot – Flower bud D. Potato - Rhizome												
	a) A only	b) Both A & D	c) D only	d) All of the above	a								
59	Select the correct answers for the matching pairs:												
	<table><tr><td>A. <i>Cucurbita maxima</i></td><td>i. Pointed gourd</td></tr><tr><td>B. <i>Benincasa hispida</i></td><td>ii. Spine gourd</td></tr><tr><td>C. <i>Momordica dioica</i></td><td>iii. Winter squash</td></tr><tr><td>D. <i>Trichosanthes dioica</i></td><td>iv. Wax gourd</td></tr></table>				A. <i>Cucurbita maxima</i>	i. Pointed gourd	B. <i>Benincasa hispida</i>	ii. Spine gourd	C. <i>Momordica dioica</i>	iii. Winter squash	D. <i>Trichosanthes dioica</i>	iv. Wax gourd	
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	(a) A-iii, B-iv, C-ii, D-i	(b) A-ii, B-i, C-iv, D-iii	(c) A-i, B-ii, C-iv, D-iii	(d) A-iv, B-i, C-iii, D-ii	a								

60	Choose the correct answers for the matching pairs:												
	<table><tr><td>A. Onion</td><td>i. Tuber</td></tr><tr><td>B. Carrot</td><td>ii. Salad</td></tr><tr><td>C. Cassava</td><td>iii. Bulb</td></tr><tr><td>D. Lettuce</td><td>iv. Root</td></tr></table>				A. Onion	i. Tuber	B. Carrot	ii. Salad	C. Cassava	iii. Bulb	D. Lettuce	iv. Root	
A. Onion	i. Tuber												
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61	Choose the correct answers for matching pairs:												
	<table><tr><td>A. Bottlegourd</td><td>i. Pale yellow</td></tr><tr><td>B. Pumpkin</td><td>ii. Deep yellow</td></tr><tr><td>C. Ridge gourd</td><td>iii. White</td></tr><tr><td>D. Sponge gourd</td><td>iv. Yellow</td></tr></table>				A. Bottlegourd	i. Pale yellow	B. Pumpkin	ii. Deep yellow	C. Ridge gourd	iii. White	D. Sponge gourd	iv. Yellow	
A. Bottlegourd	i. Pale yellow												
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	a) A-i, B-ii, C-iii, D-iv	b) A-ii, B-iii, C-iv, D-i	c) A-iii, B-iv, C-i, D-ii	d) A-ii, B-i, C-iv, D-iii	c								
62	Quercetin is present in												
	a) Cucumber	b) Pumpkin	c) Onion	d) Bitter gourd	c								
63	'Freedom 2' is a transgenic variety of												
	a) Potato	b) Sweet potato	c) Summer squash	d) Okra	c								
64	Choose the correct statement of the following:												
	A. Muskmelon- Andromonoecious B. Tomato- Gynoecious C. Bottle gourd – Dioecious D. Peas and beans – Androecious												
	a) a only	b) Both b & c	c) d only	d) All of the above	a								
65	Choose the correct answer for the matching pairs:												
	<table><tr><td>A. Cucurbits</td><td>i. Berry</td></tr><tr><td>B. Tomato</td><td>ii. Pepo</td></tr><tr><td>C. Cole crops</td><td>iii. Capsule</td></tr><tr><td>D. Okra</td><td>iv. Siliqua</td></tr></table>				A. Cucurbits	i. Berry	B. Tomato	ii. Pepo	C. Cole crops	iii. Capsule	D. Okra	iv. Siliqua	
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D. Okra	iv. Siliqua												
	a) A-i, B-ii, C-iii, D-iv	b) A-ii, B-i, C-iv, D-iii	c) A-ii, B-iv, C-i, D-iii	d) A-iii, B-i, C-ii, D-iv	b								
66	Choose the correct statement of the following:												
	A. Pusa Purple Cluster is a variety of Brinjal B. Pusa Drum Head is a variety of Cabbage C. Pant Uphar is a variety of Broccoli D. Arka Pragati is a variety of Knolkhol												
	a) A only	b) Both A & B	c) C only	d) D only	b								
67	Scooping is related to												
	a) Cauliflower	b) Okra	c) Tomato	d) Potato	a								

68	'U' triangle is associated with												
	a) Cole crops	b) Potato	c) Cucurbits	d) Amaranthus	a								
69	Choose the correct answer for matching pairs:												
	<table><tr><td>A. Cucumber</td><td>i. Cooking</td></tr><tr><td>B. All gourds</td><td>ii. Dessert fruits</td></tr><tr><td>C. Ash gourd</td><td>iii. Salad</td></tr><tr><td>D. Muskmelon</td><td>iv. Candy</td></tr></table>				A. Cucumber	i. Cooking	B. All gourds	ii. Dessert fruits	C. Ash gourd	iii. Salad	D. Muskmelon	iv. Candy	
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70	Which of the following vegetable is C ₄ plant?												
	a) Lettuce	b) Celery	c) Amaranthus	d) Spinach	c								
71	Gynoecious sex form is found in												
	a) Tapioca	b) Potato	c) Sweet potato	d) Cucumber	d								
72	Choose the correct answers for matching pairs:												
	<table><tr><td>A. Cabbage</td><td>i. 20</td></tr><tr><td>B. Cucumber</td><td>ii. 22</td></tr><tr><td>C. Turnip</td><td>iii. 14</td></tr><tr><td>D. Bittergourd</td><td>iv. 18</td></tr></table>				A. Cabbage	i. 20	B. Cucumber	ii. 22	C. Turnip	iii. 14	D. Bittergourd	iv. 18	
A. Cabbage	i. 20												
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C. Turnip	iii. 14												
D. Bittergourd	iv. 18												
	a) A-i, B-ii, C-iii, D-iv	b) A-ii, B-i, C-iii, D-iv	c) A-ii, B-iv, C-iii, D-i	d) A-iv, B-iii, C-i, D-ii	d								
73	Choose the correct answer for matching pairs:												
	<table><tr><td>A. Cabbage</td><td>i. Tuty-Fruity</td></tr><tr><td>B. Ash gourd</td><td>ii. Sauerkraut</td></tr><tr><td>C. Yam</td><td>iii. Petha</td></tr><tr><td>D. Bottle gourd</td><td>iv. Fufu</td></tr></table>				A. Cabbage	i. Tuty-Fruity	B. Ash gourd	ii. Sauerkraut	C. Yam	iii. Petha	D. Bottle gourd	iv. Fufu	
A. Cabbage	i. Tuty-Fruity												
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74	Select the correct answers for the matching pairs:												
	<table><tr><td>A. Tomato</td><td>i. 2n=14</td></tr><tr><td>B. Okra</td><td>ii. 2n=24</td></tr><tr><td>C. Pea</td><td>iii. 2n=48</td></tr><tr><td>D. Potato</td><td>iv. 2n=130</td></tr></table>				A. Tomato	i. 2n=14	B. Okra	ii. 2n=24	C. Pea	iii. 2n=48	D. Potato	iv. 2n=130	
A. Tomato	i. 2n=14												
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	a) A-ii, B-iv, C-i, D-iii	b) A-ii, B-iii, C-iv, D-i	c) A-iv, B-iii, C-i, D-ii	d) A-iii, B-i, C-ii, D-iv	a								
75	'Diamond black moth' is a serious pest of												
	a) Cauliflower	b) Cabbage	c) Knol khol	d) Broccoli	b								

76	Select the correct answers for the matching pairs:														
	<table><tr><td>A. Pea</td><td>i. <i>Ipomia trifida</i></td></tr><tr><td>B. Cucumber</td><td>ii. <i>Lycopersicon esculatum var Cerasiforme</i></td></tr><tr><td>C. Sweet potato</td><td>iii. <i>Cucumis hardwickii</i></td></tr><tr><td>D. Tomato</td><td>iv. <i>Pisum elatius</i></td></tr></table>				A. Pea	i. <i>Ipomia trifida</i>	B. Cucumber	ii. <i>Lycopersicon esculatum var Cerasiforme</i>	C. Sweet potato	iii. <i>Cucumis hardwickii</i>	D. Tomato	iv. <i>Pisum elatius</i>			
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	a) A-iv, B-iii, C-i, D-ii	b) A-iv, B-i, C-ii, D-iii	c) A-i, B-ii, C-iii, D-iv	d) A-iii, B-i, C-ii, D-iv	a										
77	Pumpkin belongs to the family														
	a) Amaryllidaceae	b) Araceae	c) Cucurbitaceae	d) Solanaceae	c										
78	Moneocious sex form is found in														
	a) Cucumber	b) Pea	c) Tomato	d) Okra	a										
79	Which of the following set of statements best describe the feature of plant hormone? Indicate your answer by selecting the following code. (i) It is the induction of a plant's flowering process by exposure to the prolonged cold of winter, or by an artificial equivalent. (ii) It is produced at a faster rate in rapidly growing and dividing cells, especially in darkness. (iii) Produce by plants themselves and control multiple aspects of development across the life cycle. (iv) Auxins are compounds that positively influence cell enlargement, bud formation, and root initiation. Choose the correct answer from the options given below:														
	(A) i, ii and iii only	(B) ii, iii and iv only	(C) i, iii and iv only	(D) i and iv only	b										
80	Which of the following are features of CO ₂ metabolism of succulent plants with CAM? (i) Nocturnal stomatal opening (ii) Night-time transpiration (iii) Night-time CO ₂ uptake (iv) Decrease in acidity during the night Choose the correct answer from the options given below:														
	(A) ii, iii and iv only	(B) i, ii and iv only	(C) i, iii and iv only	(D) i, ii and iii only	d										
81	Match List I with List II														
	<table><tr><td>List-I</td><td>List-II</td></tr><tr><td>a. Both the male and female sex organs in the same flower</td><td>i) Monoecious</td></tr><tr><td>b. Both male and female reproductive parts in the same plant</td><td>ii) Hermaphrodite</td></tr><tr><td>c. Only female flower on a plant</td><td>iii) Andromonoecy</td></tr><tr><td>d. Male and hermaphrodite flowers are on the same plant</td><td>iv) Gynoecious</td></tr></table> Choose the correct answer from the options given below:				List-I	List-II	a. Both the male and female sex organs in the same flower	i) Monoecious	b. Both male and female reproductive parts in the same plant	ii) Hermaphrodite	c. Only female flower on a plant	iii) Andromonoecy	d. Male and hermaphrodite flowers are on the same plant	iv) Gynoecious	
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	A) a- i, b-ii, c-iii, d-iv	B) a-ii, b-i, c-iv, d-iii	C) a-ii, b-i, c-iii, d-iv	D) a-iii, b-ii, c-ii, d-i	b										
82	Match List I with List II <table><tr><td>List-I</td><td>List-II</td></tr><tr><td>a. Beri Beri</td><td>i) Vitamin B₁</td></tr><tr><td>b. Blindness</td><td>ii) Vitamin C</td></tr><tr><td>c. Scurvy</td><td>iii) Vitamin A</td></tr><tr><td>d. Sterility</td><td>iv) Vitamin E</td></tr></table> Choose the correct answer from the options given below:				List-I	List-II	a. Beri Beri	i) Vitamin B ₁	b. Blindness	ii) Vitamin C	c. Scurvy	iii) Vitamin A	d. Sterility	iv) Vitamin E	
List-I	List-II														
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	A) a- ii, b-iv, c-iii, d-i	B) a-iii, b-i, c-iv, d-ii	C) a-i, b-iii, c-ii, d-iv	D) a-iii, b-iv, c-i, d-ii	c										
83	Bitter pit is a physiological disorder of														
	a) Apple	b) Plum	c) Avocado	d) Cherry	a										
84	The propagation of the Strawberry is commonly done by														
	a) Runner	b) Suckers	c) Cutting	d) Shield budding	a										
85	Taiwan Var. of Papaya is famous for its														
	a) Pleasant Aroma	b) Seedlessness	c) Blood Red Colour	d) Sweet Pulp	c										
86	In mango, the main insect responsible for pollination is														
	a) Aphid	b) House fly	c) Honey bee	d) Wasp	b										
87	If the pollination process is performed by birds, the mode of pollination is referred to as														
	(a) Anemophily	(b) Zoophily	(c) Entomophily	(d) Ornithophily	d										
88	Which variety has the maximum area under grape cultivation														
	(a) Anabe shahi	(b) Pusa seedless	(c) Poriate	(d) Thomson seedless	d										
89	Choose the correct statement from the following based on the economic part of plants used: a. Seed in Almond b. Fleshy thalamus in Apple c. Endosperm in Coconut d. Mesocarp in Citrus														
	(A) a and b only	(B) b and c only	(C) a, b and c only	(D) a,b,c and d	c										
90	Match the various crops with their family and choose the correct option from the following: <table><tr><td>A. Mango</td><td>i) Anacardiaceae</td></tr><tr><td>B. Papaya</td><td>ii) Caricaceae</td></tr><tr><td>C. Litchi</td><td>iii) Sapindaceae</td></tr><tr><td>D. Guava</td><td>iv) Myrtaceae</td></tr></table>				A. Mango	i) Anacardiaceae	B. Papaya	ii) Caricaceae	C. Litchi	iii) Sapindaceae	D. Guava	iv) Myrtaceae			
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	a) A-i, B-ii, C-iii, D-iv	b) A-i, B-ii, C-iv, D-iii	c) A-iv, B-iii, C-i, D-ii	d) A-ii, B-iv, C-iii, D-i	a										

91	Sweet potato belongs to the family												
	(a) Chinopodiaceae	(b) Convolvuaceae	(c) Umbelliferae	(d) Fabaceae	b								
92	The ideal temperature range for tuberization in potato is												
	(a) 25-30 °C	(b) 30-35 °C	(c) 10-15 °C	(d) 18-20 °C	d								
93	Browning of curd in cauliflower occurs due to a deficiency of												
	(a) Molybdenum	(b) Boron	(c) Calcium	(d) Magnesium	b								
94	Bonneville is a variety of garden pea introduced from												
	(a) UK	(b) Germany	(c) USA	(d) Japan	c								
95	The anti-cancer properties in crucifers is due to the presence of												
	(a) Indol-3-carbinol	(b) Anthocyanin	(c) Diadzein	(d) Carotenoids	a								
96	Brown anther type male sterility is observed in which vegetable crop												
	(a) Radish	(b) Turnip	(c) Carrot	(d) Beet	c								
97	Which crop is a good source of L-Dopa (Dopamine) to cure Parkinson disease												
	a) Broccoli	b) Broad bean	c) Lettuce	d) Celery	b								
98	The best quality oleoresin is extracted from												
	a) Onion	b) Castor	c) Garlic	d) Chilli	d								
99	Choose the correct statement from the following based on the edible part of vegetable crop: a Head in Cabbage b Curd in Cauliflower c Swollen stem/Knob in Knol Khol d Leaf in Okra												
	(A) a and b only	(B) b and c only	(C) a, b and c only	(D) All the above	C								
100	Match the various vegetable crops with their physiological disorder and choose the correct option from the following: <table border="1"><tr><td>A. Potato</td><td>i) Radical cracking</td></tr><tr><td>B. Tomato</td><td>ii) Greening</td></tr><tr><td>C. Cauliflower</td><td>iii) Cavity spot</td></tr><tr><td>D. Carrot</td><td>iv) Whiptail</td></tr></table>				A. Potato	i) Radical cracking	B. Tomato	ii) Greening	C. Cauliflower	iii) Cavity spot	D. Carrot	iv) Whiptail	
A. Potato	i) Radical cracking												
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	a) A-ii B-i, C-iv D-iii	b) A-iii B-iv, C-i, D-ii	c) A-ii, B-i, C-iii, D-iv	d) A-ii, B-iv, C-iii D-i	a								
101	Amrapali mango is a hybrid between:												
	a) Dashehari × Neelum	b) Neelum × Dashehari	c) Totapuri × Alphonso	d) Banganapalli × Neelum	(a)								
102	The edible bananas are mainly hybrids of:												

	<i>a) Musa paradisiaca</i> <i>× Musa sapientum</i>	<i>b) Musa acuminata</i> <i>× Musa balbisiana</i>	<i>c) Musa indica ×</i> <i>Musa japonica</i>	<i>d) Musa robusta</i> <i>× Musa nana</i>	(b)
103	Match the following				
	A . Black tip		I Alphonso, enzyme inactivation		
	B. Spongy tissue		II Brick-kiln gases		
	C. Mango malformation		III Climate stress, embryo abortion		
	D. Jhumka		IV Floral/vegetative disorder		
	a) A-I, B-II, C-III, D-IV	b) A-III, B-I, C-IV, D-II	c) A-II, B-I, C-IV, D-III	d) A-I, B-III, C-IV, D-II	(c)
104	Citrus belongs to the family of				
	a) Rutaceae	b) Malvaceae	c) Moraceae	d) Euphorbiaceae	(a)
105	In banana, removal of male flower after last hand emergence is done to:				
	a) Reduce fruit size	b) Save nutrients and avoid rot	c) Increase seediness	d) Prevent sunscald	(b)
106	Match the following				
	A. Pomegranate		I Thalamus		
	B.Mango		II Mesocarp		
	C.Citrus		III Aril		
	D. Strawberry		IV Juicy placental hairs		
	a) A-I, B-II, C-III, D-IV	b) A-III, B-II, C-IV, D-I	c) A-II, B-III, C-IV, D-I	d) A-II, B-IV, C-III, D-I	(b)
107	Polyembryony is reported in				
	a) Ber	b) Jamun	c) Plum	d) Jackfruit	(b)
108	Hachiya and Fuyu are varieties of				
	a) Apple	b) Plum	c) Persimmon	d) Fig	(c)
109	Which state ranks first in mango production in India?				
	a)Uttar Pradesh	b) Andhra Pradesh	c) Maharashtra	d) Bihar	(a)
110	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 (A): Quincunx system is also called the diagonal system. Justification (J) : It involves planting a filler tree in the centre of each square				

	a) both Assertion (A) and Justification (J) are correct and Justification (J) is the correct explanation of the Assertion	b) both Assertion (A) and Justification are correct but Justification (J) is not the correct explanation for Assertion	c) Assertion (A) is correct but Justification (J) is incorrect	d) both Assertion (A) and Justification (J) are incorrect	(a)								
111	Match the following <table border="1"><tr><td>A . Inarching</td><td>I 95% success</td></tr><tr><td>B. Veneer grafting</td><td>II For <i>in-situ</i> grafting</td></tr><tr><td>C. Epicotyl grafting</td><td>III Seedlings 8–15 days old</td></tr><tr><td>D. Budding</td><td>IV Less common in mango</td></tr></table>				A . Inarching	I 95% success	B. Veneer grafting	II For <i>in-situ</i> grafting	C. Epicotyl grafting	III Seedlings 8–15 days old	D. Budding	IV Less common in mango	
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	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	(a)								
112	Frost injury in strawberry can be reduced by												
	a) Drip irrigation	b) Straw mulching	c) Wind machines	d) Early harvesting	(b)								
113	Which fruit is called the “king of fruits” in India?												
	a) Banana	b) Mango	c) Apple	d) Grapes	(b)								
114	Match the following <table border="1"><tr><td>A. CISH</td><td>I Pune (Maharashtra)</td></tr><tr><td>B.IARI</td><td>II Pakyong (Sikkim)</td></tr><tr><td>C.NRC Grape</td><td>III New Delhi</td></tr><tr><td>D. NRC Orchid</td><td>IV Lucknow(U.P.)</td></tr></table>				A. CISH	I Pune (Maharashtra)	B.IARI	II Pakyong (Sikkim)	C.NRC Grape	III New Delhi	D. NRC Orchid	IV Lucknow(U.P.)	
A. CISH	I Pune (Maharashtra)												
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	a) A-II, B-IV, C-I, D-III	b) A-II, B-IV, C-I, D-III	c) A-IV, B-III, C-I, D-II	d) A-I, B-II, C-III, D-IV	Answer (C)								
115	Triple sigmoid growth curve is found in												
	a) Pear	b) Walnut	c) Sapota	d) Kiwi fruit	(d)								
116	Mango and papaya are good sources of:												
	a) Vitamin C	b) Beta-carotene	c) Lycopene	d) Vitamin E	(b)								
117	Limonoids, effective against cancer, are present in:												
	a) Grapes	b) Citrus	c) Banana	d) Mango	(b)								

118	Grapes and peach can be cultivated in:														
	a) Only tropical zone	b) Tropical & subtropical zones	c) Subtropical & temperate zones	d) Only coastal zones	(c)										
119	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 (A): Blueberry thrives best in soils with pH around 4.5. Justification (J): It requires acidic soil conditions for proper nutrient uptake.														
	a) both Assertion (A) and Justification (J) are correct and Justification (J) is the correct explanation of the Assertion	b) both Assertion (A) and Justification (J) are correct but Justification (J) is not the correct explanation for Assertion	c) Assertion (A) is correct but Justification (J) is incorrect	d) both Assertion (A) and Justification (J) are incorrect	(a)										
120	Match the following <table border="1"><thead><tr><th>Mango variety</th><th>State</th></tr></thead><tbody><tr><td>A. Alphonso</td><td>I. Gujarat</td></tr><tr><td>B. Banganapalli</td><td>II. Uttar Pradesh</td></tr><tr><td>C. Langra</td><td>III. Maharashtra</td></tr><tr><td>D. Kesar</td><td>IV. Andhra Pradesh</td></tr></tbody></table>				Mango variety	State	A. Alphonso	I. Gujarat	B. Banganapalli	II. Uttar Pradesh	C. Langra	III. Maharashtra	D. Kesar	IV. Andhra Pradesh	
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121	Planting of windbreaks in orchards helps in reducing:														
	a) Fruit cracking	b) Sunburn	c) Fruit drop due to wind	d) Root diseases	(c)										
122	Which of the following fruit is known as “Apple of tropics”?														
	a) Jackfruit	b) Guava	c) Pineapple	d) Sapota	(b)										
123	June drop in citrus is mainly associated with:														
	a) Pest attack	b) Low humidity and high transpiration	c) Fungal infection	d) Nutrient deficiency	(b)										

124	Choose the correct statement: A- Apple belongs to Rosaceae family B-Alphonso is a hybrid of apple C- Apple crop is heterozygous in nature D-Apple crop is tropical in nature In the light of the above Statements, choose the correct answer from the options given below:				
	a) Both statement A and B are true	b) Only statement A is true	c) Both statement A and C are true	d) Both statement A and C are false	Answer (c)
125	Botanically plum fruit is				
	a) Pome	b) Drupe	c) Berry	d) Pepo	(b)
126	Dragon fruit is commercially propagated through				
	a) Layering	b) Budding	c) Grafting	d) Cutting	(d)
127	Origin place of jamun is				
	a) Brazil	b) China	c) India	d) Europe	(c)
128	Foliar application of micronutrients is recommended to reduce fruit drop due to:				
	a) Climatic stress	b) Nutrient deficiency	c) Pest attack	d) Waterlogging	(b)
129	Cocoa and jackfruit exhibit which unique bearing habit?				
	a) Axillary	b) Terminal	c) Cauliflorous	d) Herbaceous	(c)
130	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 (A): Banana is highly susceptible to frost injury. Justification (J) : Its pseudostem and shallow root system are easily damaged by cold.				
	a) both Assertion (A) and Justification (J) are correct and Justification (J) is the correct explanation of the Assertion	b) both Assertion (A) and Justification (J) are correct but Justification (J) is not the correct explanation for Assertion	c) Assertion (A) is correct but Justification (J) is incorrect	d) both Assertion (A) and Justification (J) are incorrect	(a)

131	Apple and pear mainly bear fruits on:				
	a) Current shoots	b) Spurs	c) Terminal panicles	d) Trunks	(b)
132	L-49 is a variety of				
	a)Grape	b) Banana	c) Guava	d) Apple	(c)
133	“Bower system” planting is followed in				
	a) Walnut	b) Pear	c) Grape	d) Cashwenut	(c)
134	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 (A): Arid-zone fruits like ber and pomegranate can tolerate saline conditions. Justification (J) : They have higher tolerance to soil salts compared to other fruit crops.				
	a) both Assertion (A)and Justification (J) are correct and Justification (J) is the correct explanation of the Assertion	b) both Assertion (A) and Justification (J) are correct but Justification (J)is not the correct explanation for Assertion	c) Assertion (A) is correct but Justification (J)is incorrect	d) both Assertion (A) and Justification (J) are incorrect	(a)
135	Which growth regulator induces off-season flowering in mango?				
	a) GA ₃	b) NAA	c) Paclobutrazol	d) Ethrel	(c)
136	“Kinnow” hybrid of mandarin was developed by				
	a) K. L. Chadha	b) G. S. Randhawa	c) H.B. Frost	d) W. B. Hayes	(c)
137	Major fruits contributing 75% of India’s total fruit production are:				
	a) Mango, Banana, Citrus, Guava, Apple	b) Mango, Banana, Papaya, Grapes, Pineapple	c) Banana, Guava, Sapota, Citrus, Papaya	d) Apple, Mango, Citrus, Grapes, Pear	(b)
138	D leaf is associated with				
	a)Pineapple	b) Pear	c) Plum	d) Citrus	(a)
139	Banana is originated in:				
	a) South America	b) Africa	c) South-East Asia	d) India	(c)
140	The inception of ripening in grapes is termed as				
	a) Colour break	b) Turning stage	c) Verasion	d) Climacteric	(c)

141	Which of the following is a rich source of Vitamin C												
	a) Barbados cherry	b) Papaya	c) Mango	d) Bael	(a)								
142	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 (A): Apple can be cultivated successfully in subtropical and temperate zones. Justification (J) : It requires chilling hours for bud break and fruit set.												
	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)								
143	Commercial propagation method of guava is:												
	a) Inarching	b) Veneer grafting	c) Air-layering	d) Seed	(c)								
144	The edible portion of litchi fruit is:												
	a) Pericarp	b) Aril	c) Endocarp	d) Mesocarp	(b)								
145	Rootstock commonly used for pear in India is:												
	a) Quince A	b) M-9	c) Kalipatti	d) Trifoliate orange	(a)								
146	Date palm belongs to family:												
	a) Arecaceae	b) Musaceae	c) Anacardiaceae	d) Rutaceae	(a)								
147	Common rootstock used in grapes for drought tolerance is:												
	a) Riparia	b) St. George	c) 110R	d) Dogridge	(d)								
148	Often cross pollination is found in												
	a) Carrot	b) Okra	c) Cabbage	d) Muskmelon	b								
149	Sulforaphane found in												
	a) Lettuce	b) Cabbage	c) Muskmelon	d) Broccoli	d								
150	Select the correct answers for matching pairs: <table><tr><td>A. Potato</td><td>i. Forking</td></tr><tr><td>B. Carrot</td><td>ii. Hypocotyls necrosis</td></tr><tr><td>C. Bean</td><td>iii. Brown heart</td></tr><tr><td>D. Radsih</td><td>iv. Greening</td></tr></table>				A. Potato	i. Forking	B. Carrot	ii. Hypocotyls necrosis	C. Bean	iii. Brown heart	D. Radsih	iv. Greening	
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