

Test Booklet No. _____

This booklet consists of 150 questions and __ pages.

RGUPET/2025/1004/101

RGUPET 2025
Common Entrance Test, 2025
DOCTOR OF PHILOSOPHY IN AGRICULTURAL ECONOMICS

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.

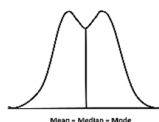
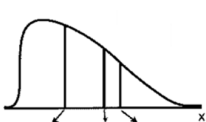
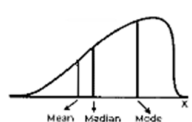
1. DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO.
2. Candidate must write his/her Roll Number on the space provided.
3. This Test Booklet contains 150 Multiple Choice Questions (MCQs) from the concerned subject. Each question carries 1 mark.
4. Please check the Test Booklet to verify that 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.

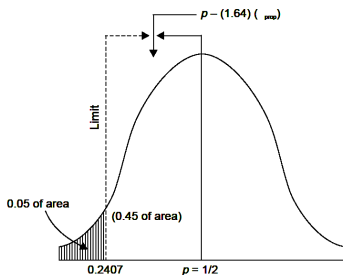
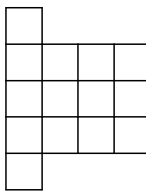
1	The “Mission Sudarshan Chakra”, recently launched by the Prime Minister of India, primarily relates to				development of a multilayered air and missile defence system
	a) a national renewable energy mission	b) a national digital currency mission	c) development of a multilayered air and missile defence 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)

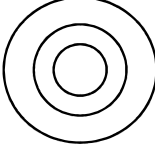
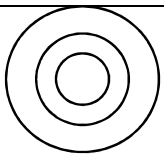
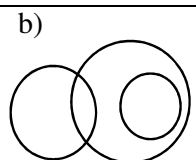
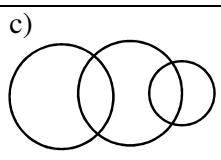
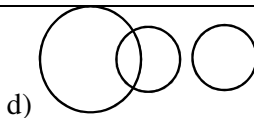
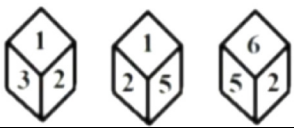
7	Assertion (A): Eclipses do not occur on all full moon and new moon days. Reason (R): The moon revolves round the earth in an elliptical orbit.				A and R are true but R doesnot explain A
	a) A and R are true and R correctly explains A.	b) A and R are true but R doesnot explain A.	c) A is true R is false	d) R is true but A is false	(b)
8	Right to equality is a-				Fundament al 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		1. New York		
	B. WHO		2. Paris		
	C. UNICEF		3. Geneva		
	D. IMF		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.				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.												
	a) P	b) Q	c) R	d) S	(b)								
1 5	The correct match of synonyms and antonyms is: <table><tr><td>A. Futile</td><td>i. Help</td></tr><tr><td>B. Generic</td><td>ii. Effective</td></tr><tr><td>C. Hinder</td><td>iii. Individual</td></tr><tr><td>D. Inception</td><td>iv. Termination</td></tr></table>				A. Futile	i. Help	B. Generic	ii. Effective	C. Hinder	iii. Individual	D. Inception	iv. Termination	A-ii, B-iii, C-i, D-iv
A. Futile	i. Help												
B. Generic	ii. Effective												
C. Hinder	iii. Individual												
D. Inception	iv. Termination												
	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)								
1 6	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								
1 7	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								
1 8	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								
1 9	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								

20	Relate 'sampling design' and its 'method'				Answer
	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		
	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
21	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
22	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
23	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
24	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																																											
	a) A-i, B-ii, C-iv, D-iii	b) A-ii, B-iii, C-iv, D-i	c) A-iii, B-ii, C-i, D-iv	d) A-i, B-ii, C-iii, D-iv	a																																								
25	Which one of the following refers to positive skewness?																																												
	a) 	b) 	c) 	d) 	c																																								
26	How much is the degree of freedom for the following data table?																																												
	<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>$\Sigma D_i = -60$</td><td>$\Sigma D_i^2 = 1816$</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	$n = 10$			$\Sigma D_i = -60$	$\Sigma D_i^2 = 1816$	Answer
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	a) 8	b) 9	c) 10	d) 18	b																																								
27	Find out the Null hypothesis for the given table																																												
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	a) $\mu_{H_0} = 578\text{kg.}$	b) $\mu_{H_0} \neq 578\text{kg.}$	c) $\mu_{H_0} = -578\text{kg.}$	d) $\mu_{H_0} = \pm 578\text{kg.}$	a																																								
28	What will be sum of the deviations of observations from the regression line?				Answer																																								
	a) $-\infty$	b) 0	c) $+\infty$	d) undefined	b																																								
29	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 justification explains the Assertion	b) Assertion is false but justification explains the Assertion	c) Assertion is true and justification is true but does not explain the Assertion	d) Assertion is true and justification for the Assertion is incorrect	d
30	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
31	The total number of squares in the following figure is:				22
					
	a) 24	b) 20	c) 22	d) 18	(c)
32	A daily train service is maintained between stations A and B. Trains depart from each station at 4:00 AM daily. The journey takes 44 hours. How many trains are needed to sustain the service?				4
	a) 2	b) 4	c) 6	d) 5	(b)
33	Fill in the blank in the following pattern. ELFY GLHX ILJW ----- MLNU				KLLV
	a) KLLV	b) KLMX	c) JLLV	d) JLMX	a)

3 4	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)
3 5	A man walks 10 km north. He then turns and walks 6 km south, followed by 3 km east. The straight-line distance of the man from his starting point and the direction with respect to it is-				5 km North East
	a) 3 km East	b) 5 km West	c) 3 km North East	d) 5 km North East	(d)
3 6	Which among the following illustrates the correct relationship between food, fruit and apple?				
	a) 	b) 	c) 	d) 	(a)
3 7	Choose the option that has the same relationship with the third term as the second term has with the first. Car: Garage :: Aeroplane: ?				Hanger
	a) Sky	b) Runway	c) Cockpit	d) Hanger	(d)
3 8	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)
3 9	If BANKER is coded as CAOKFR, then how would LAWYER be coded?				MAXYFR
	a) LBWZES	b) LBWYFR	c) MAXYFR	d) MAXZES	(c)
4 0	Three different views of the same dice are shown. Which number appears on the face opposite to the face with the number '1'?				6
					
	a) 6	b) 5	c) 3	d) 4	(a)
4 1	The technique of recording and reproducing three-dimensional images of objects is known as				holography
	a) polarography	b) photography	c) lithography	d) holography	(d)

4 2	<i>Upanishads</i> are books on				philosophy
	a) yoga	b) philosophy	c) religion	d) law	(b)
4 3	Which of the following sentences is false? A. Palk Strait joins India and Sri Lanka B. The Radcliffe Line is between India and Pakistan C. The MacMohan Line separates India and China D. The Durand Line is between Iran and Afghanistan.				The Durand Line is between Iran and Afghanistan
	a) A	b) B	c) C	d) D	(d)
4 4	The author of the book “Midnight’s Children” is-				Salman Rushdie
	a) Shakespeare	b) Leo Tolostoy	c) Salman Rushdie	d) R K Narayan	(c)
4 5	Right to equality is a-				Fundamental right
	a) fundamental right	b) social right	c) cultural right	d) legal right	(a)

46	Relate the statements: A: Assertion–SSDs are faster than HDDs. B: Justification–Because SSDs use flash memory instead of spinning disks.				Answer								
	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	Answer
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D. Expert Systems	iv Mimics human decision-making using rules and knowledge base												
	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?				Answer								

	a) Python	b) JavaScript	c) C#	d) HTML	(a)
49	Which of the following statement is true:				Answer
	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?				Answer
	a) Intranet	b) Internet	c) WAN	d) LAN	(b)

51	Economic analysis in agricultural economics is														
	a) Study of physical sciences	b) Application of economic principles to agriculture	c) Focus on biological processes	d) Analysis of weather patterns	Answer b										
52	Consumer behavior theory refers to														
	a) Analysis of how individuals make choices to allocate resources	b) Study of how firms produce goods	c) Examination of government policies	d) Review of international trade	Answer a										
53	Match the economic theories (List I) with their key proponents (List II). <table><tr><td>List I</td><td>List II</td></tr><tr><td>A. Classical Theory</td><td>(i) John Maynard Keynes</td></tr><tr><td>B. Keynesian Theory</td><td>(ii) Adam Smith</td></tr><tr><td>C. Neo-Classical Theory</td><td>(iii) Alfred Marshall</td></tr><tr><td>D. Neo-Keynesian Theory</td><td>(iv) Paul Samuelson</td></tr></table>				List I	List II	A. Classical Theory	(i) John Maynard Keynes	B. Keynesian Theory	(ii) Adam Smith	C. Neo-Classical Theory	(iii) Alfred Marshall	D. Neo-Keynesian Theory	(iv) Paul Samuelson	
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C. Neo-Classical Theory	(iii) Alfred Marshall														
D. Neo-Keynesian Theory	(iv) Paul Samuelson														
	a) A-ii, B-i, C-iii, D-iv	b) A-i, B-ii, C-iv, D-iii	c) A-iii, B-iv, C-i, D-ii	d) A-iv, B-iii, C-ii, D-i	Answer a										
54	Match the market structures (List I) with their characteristics (List II). <table><tr><td>List I</td><td>List II</td></tr><tr><td>A. Perfect Competition</td><td>(i) Many sellers, differentiated products</td></tr><tr><td>B. Monopoly</td><td>(ii) Few sellers</td></tr><tr><td>C. Oligopoly</td><td>(iii) Single seller</td></tr><tr><td>D. Monopolistic Competition</td><td>(iv) Many sellers, homogeneous products</td></tr></table>				List I	List II	A. Perfect Competition	(i) Many sellers, differentiated products	B. Monopoly	(ii) Few sellers	C. Oligopoly	(iii) Single seller	D. Monopolistic Competition	(iv) Many sellers, homogeneous products	
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55	Assertion (A): Price determination under perfect competition leads to efficient allocation. Reason (R): Many buyers and sellers ensure no single entity controls price.														
	a) Both A and R are true, R explains A	b) Both true, R does not explain A	c) A true, R false	d) A false, R true	Answer a										
56	Assertion (A): Taxation affects market conditions differently. Reason (R): In monopoly, taxes are often passed to consumers.														
	a) Both A and R are true, R explains A	b) Both true, R does not explain A	c) A true, R false	d) A false, R true	Answer a										
57	In a monopoly, if demand is $P = 100 - Q$ and cost is $C = 20Q$, what is the profit-maximizing quantity?														
	a) 70	b) 50	c) 60	d) 40	Answer d										
58	Using Harrod-Domar model, if savings rate is 0.2 and capital-output ratio is 4, what is growth rate?														
	a) 8%	b) 5%	c) 10%	d) 20%	Answer b										
59	If the NPV of a project is Rs. 1000 at 10% discount rate, with cash flows $0=-2000$, $1=1000$, $2=1500$, verify.														
	a) Positive, accept	b) Negative, reject	c) Zero, indifferent	d) Undefined	Answer a										
60	Maximize $Z=3x+4y$ subject to $x+y \leq 5$, $x \geq 0$, $y \geq 0$. What is optimal Z?														
	a) 15	b) 20	c) 25	d) 30	Answer b										
61	Match advanced production functions (List I) with properties (List II). <table><tr><th>List I</th><th>List II</th></tr><tr><td>A. Spillman</td><td>(i) Non-linear growth</td></tr><tr><td>B. Quadratic</td><td>(ii) Log transformation</td></tr><tr><td>C. Semi-Log</td><td>(iii) Sigmoid shape</td></tr><tr><td>D. Cubic</td><td>(iv) Polynomial degree 2</td></tr></table>				List I	List II	A. Spillman	(i) Non-linear growth	B. Quadratic	(ii) Log transformation	C. Semi-Log	(iii) Sigmoid shape	D. Cubic	(iv) Polynomial degree 2	
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62	Match credit reforms (List I) with innovations (List II).														

	List I		List II		
	A. e-Banking		(i) Character, Capacity, Collateral		
	B. Credit Inclusion		(ii) Digital finance		
	C. 7Ps of Credit		(iii) Product, Price, etc.		
	D. 3Cs		(iv) Access for all		
	a) A-ii, B-iv, C-iii, D-i	b) A-i, B-iii, C-ii, D-iv	c) A-iii, B-i, C-iv, D-ii	d) A-iv, B-ii, C-i, D-iii	Answer a
63	Assertion (A): VES function allows varying substitution. Reason (R): Unlike CES which is constant.				
	a) Both A and R are true, R explains A	b) Both true, R does not explain A	c) A true, R false	d) A false, R true	Answer a
64	Assertion (A): Global financial institutions aid agriculture. Reason (R): Provide loans for development.				
	a) Both A and R are true, R explains A	b) Both true, R does not explain A	c) A true, R false	d) A false, R true	Answer a
65	Assertion (A): Social cost-benefit includes externalities. Reason (R): Unlike financial, which ignores.				
	a) Both A and R are true, R explains A	b) Both true, R does not explain A	c) A true, R false	d) A false, R true	Answer a
66	Apply the CES function: If $\sigma=0.5$, how does substitution affect production?				
	a) Infinite	b) High	c) Low substitution	d) Zero	Answer c
67	Which policy response is most appropriate in applied finance when a high credit gap is observed in the economy?				
	a) Tax	b) Decrease demand	c) Ignore	d) Increase supply	Answer d
68	According to the Program Evaluation and Review Technique (PERT), what is the expected project duration if the critical path is estimated to be 20 days?				
	a) 20 days	b) Less	c) More	d) Variable	Answer a
69	Welfare economics is				
	a) Study of government welfare programs	b) Focus on agricultural subsidies	c) Analysis of how economic policies affect social well-being	d)Examination of business cycles	Answer c
70	Market failure refers to				

	a) When markets achieve efficient outcomes	b) Situation where markets fail to allocate resources efficiently	c) Excess supply in markets	d) Government intervention in markets	Answer b										
71	Match the development theories (List I) with their models (List II). <table><tr><th>Development TheoriesList I</th><th>Models List II</th></tr><tr><td>A. Harrod-Domar</td><td>(i) Growth through capital accumulation</td></tr><tr><td>B. Lewis-Fei-Ranis</td><td>(ii) Dual economy labor transfer</td></tr><tr><td>C. Rostow's Stages</td><td>(iii) Take-off stages</td></tr><tr><td>D. Induced Innovation</td><td>(iv) Technology response to factor prices</td></tr></table>				Development TheoriesList I	Models List II	A. Harrod-Domar	(i) Growth through capital accumulation	B. Lewis-Fei-Ranis	(ii) Dual economy labor transfer	C. Rostow's Stages	(iii) Take-off stages	D. Induced Innovation	(iv) Technology response to factor prices	
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72	Match the natural resources (List I) with their economic issues (List II). <table><tr><th>List I</th><th>List II</th></tr><tr><td>A. Forests</td><td>(i) Overexploitation</td></tr><tr><td>B. Fisheries</td><td>(ii) Deforestation</td></tr><tr><td>C. Water</td><td>(iii) Scarcity</td></tr><tr><td>D. Land</td><td>(iv) Degradation</td></tr></table>				List I	List II	A. Forests	(i) Overexploitation	B. Fisheries	(ii) Deforestation	C. Water	(iii) Scarcity	D. Land	(iv) Degradation	
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73	Assertion (A): Technological change drives agricultural growth. Reason (R): It increases productivity and efficiency.														
	a) Both A and R are true, R explains A	b) Both true, R does not explain A	c) A true, R false	d) A false, R true	Answer a										
74	Assertion (A): Poverty alleviation programs target rural areas. Reason (R): Agriculture employs a large poor population.														
	a) Both A and R are true, R explains A	b) Both true, R does not explain A	c) A true, R false	d) A false, R true	Answer a										
75	Assertion (A): Externalities in natural resources require collective action. Reason (R): Individual actions may lead to overexploitation.														

	a) Both A and R are true, R explains A	b) Both true, R does not explain A	c) A true, R false	d) A false, R true	Answer a										
76	What effect does an increase in the money supply have on the interest rate according to the IS-LM model?														
	a) Increases	b) Decreases	c) Unchanged	d) Fluctuates	Answer b										
77	Which stage follows take-off in the five-stage model proposed by Walt Rostow?														
	a) Traditional	b) Drive to maturity	c) Preconditions	d) High mass consumption	Answer b										
78	If the total cost $TC=50+10Q$, what is the average cost at $Q=5$?														
	a) 10	b) 15	c) 20	d) 25	Answer c										
79	According to game theory, what outcome represents the Nash equilibrium in the prisoner's dilemma scenario?														
	a) Both cooperate	b) Both defects	c) One cooperates, one defects	d) None	Answer b										
80	Match project risks (List I) with analysis (List II). <table><tr><th>List I</th><th>List II</th></tr><tr><td>A. Market Feasibility</td><td>(i) CPM</td></tr><tr><td>B. Technical Feasibility</td><td>(ii) Demand assessment</td></tr><tr><td>C. Social Cost-Benefit</td><td>(iii) Externalities included</td></tr><tr><td>D. Resource Allocation</td><td>(iv) Production possibility</td></tr></table>				List I	List II	A. Market Feasibility	(i) CPM	B. Technical Feasibility	(ii) Demand assessment	C. Social Cost-Benefit	(iii) Externalities included	D. Resource Allocation	(iv) Production possibility	
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81	Match marketing reforms (List I) with features (List II). <table><tr><th>List I</th><th>List II</th></tr><tr><td>A. e-NAM</td><td>(i) Price info system</td></tr><tr><td>B. Contract Farming</td><td>(ii) Buyer-seller agreement</td></tr><tr><td>C. Forward Trading</td><td>(iii) Futures</td></tr><tr><td>D. Market Intelligence</td><td>(iv) Online auction</td></tr></table>				List I	List II	A. e-NAM	(i) Price info system	B. Contract Farming	(ii) Buyer-seller agreement	C. Forward Trading	(iii) Futures	D. Market Intelligence	(iv) Online auction	
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82	Match trade models (List I) with theories (List II).														

	List I		List II		
	A. Heckscher-Ohlin		(i) Economies of scale		
	B. Product Cycle		(ii) Factor endowments		
	C. Gravity Model		(iii) Distance and size		
	D. New Trade Theory		(iv) Innovation stages		
	a) A-i, B-iii, C-ii, D-iv	b) A-ii, B-iv, C-iii, D-i	c) A-iii, B-i, C-iv, D-ii	d) A-iv, B-ii, C-i, D-iii	Answer b
83	Assertion (A): Induced innovation responds to prices. Reason (R): Scarcity drives tech change.				
	a) A false, R true	b) Both true, R does not explain A	c) A true, R false	d) Both A and R are true; R explains A	Answer d
84	Assertion (A): Frontier production function measures efficiency. Reason (R): Represents best practice.				
	a) A false, R true	b) Both true, R does not explain A	c) A true, R false	d) Both A and R are true; R explains A	Answer d
85	Assertion (A): Contract farming stabilises income. Reason (R): Assured buyer and price.				
	a) Both true, R does not explain	b) Both A and R are true; R explains A	c) A true, R false	d) A false, R true	Answer b
86	In the context of trade competitiveness, what does a Revealed Comparative Advantage (RCA) value greater than 1 indicate for a country or sector?				
	a) No	b) Yes	c) Equal	d) None	Answer b
87	Applied econometrics requires which method when autocorrelation is present in the error terms of a regression model?				
	a) Average	b) OLS	c) Ignore	d) Newey-West	Answer d
88	What is considered the optimal harvest level in fisheries management to ensure sustainability and long-term productivity of the resource?				
	a) MSY level	b) Over	c) Under	d) Zero	Answer a
89	National income refers to				
	a) Sum of all incomes earned in a country over a period	b) Total earnings of individuals	c) Government revenue from taxes	d) Profits of firms	Answer a
90	Inflation means				

	a) Decrease in general price level	b) Fluctuation in exchange rates	c) Sustained increase in general price level	d) Reduction in unemployment	Answer c
91	Agricultural development means				
	a) Urbanisation process	b) Technological advancement in manufacturing	c) Industrial growth	d) Improvement in agricultural productivity and rural livelihoods	Answer d
92	Match the project appraisal methods (List I) with their metrics (List II).				
	List I	List II			
	A. NPV	(i) Benefit-Cost Ratio			
	B. IRR	(ii) Net Present Value			
	C. BCR	(iii) Internal Rate of Return			
	D. PERT	(iv) Project scheduling			
	a) A-ii, B-iii, C-i, D-iv	b) A-i, B-iv, C-ii, D-iii	c) A-iii, B-ii, C-iv, D-i	d) A-iv, B-i, C-iii, D-ii	Answer a
93	Match the marketing functions (List I) with their activities (List II).				
	List I		List II		
	A. Processing		(i) Moving goods		
	B. Transportation		(ii) Value addition		
	C. Storage		(iii) Holding inventory		
	D. Warehousing		(iv) Safe keeping		
	a) A-iv, B-iii, C-ii, D-i	b) A-iii, B-iv, C-i, D-ii	c) A-i, B-ii, C-iv, D-iii	d) A-ii, B-i, C-iii, D-iv	Answer d
94	Assertion (A): Risk management is crucial in farming. Reason (R): Uncertainty in weather affects yields.				
	a) Both A and R are true, R explains A	b) Both true, R does not explain A	c) A true, R false	d) A false, R true	Answer a
95	Assertion (A): Agricultural credit reforms improve access. Reason (R): Innovations like Kisan Credit Cards simplify borrowing.				
	a) Both A and R are true, R explains A	b) Both true, R does not explain A	c) A true, R false	d) A false, R true	Answer a
96	Assertion (A): NPV is preferred for project evaluation.				

	Reason (R): It accounts for time value of money.														
	a) Both A and R are true, R explains A	b) Both true, R does not explain A	c) A true, R false	d) A false, R true	Answer a										
97	Given the supply function $Q_s = -10 + 5P$, at $P=4$, $Q_s=?$														
	a) 5	b) 10	c) 15	d) 20	Answer b										
98	What does collusion between two firms in an oligopoly resemble?														
	a) Perfect competition	b) Monopoly	c) Monopolistic competition	d) None	Answer b										
99	For poverty measurement, if the headcount ratio is 0.3, what % are poor?														
	a) 10%	b) 20%	c) 30%	d) 40%	Answer c										
100	If marginal product $MP = \Delta TP / \Delta L$, for $TP=100$ at $L=10$, $TP=120$ at $L=11$, $MP=?$														
	a) 10	b) 20	c) 30	d) 40	Answer b										
101	Match development policies (List I) with programs (List II). <table><tr><th>List I</th><th>List II</th></tr><tr><td>A. Input Price Policy</td><td>(i) Loans for farmers</td></tr><tr><td>B. Irrigation Infrastructure</td><td>(ii) Subsidies on fertilizers</td></tr><tr><td>C. Credit Policy</td><td>(iii) Food processing</td></tr><tr><td>D. Agro-Industry Dev</td><td>(iv) Water management</td></tr></table>				List I	List II	A. Input Price Policy	(i) Loans for farmers	B. Irrigation Infrastructure	(ii) Subsidies on fertilizers	C. Credit Policy	(iii) Food processing	D. Agro-Industry Dev	(iv) Water management	
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102	Match welfare functions (List I) with concepts (List II). <table><tr><th>List I</th><th>List II</th></tr><tr><td>A. Social Welfare Function</td><td>(i) Climate change adaptation</td></tr><tr><td>B. Allocation Renewable</td><td>(ii) Utility aggregation</td></tr><tr><td>C. Mitigation Policies</td><td>(iii) Sustainable use</td></tr><tr><td>D. Farm Records</td><td>(iv) Efficiency tracking</td></tr></table>				List I	List II	A. Social Welfare Function	(i) Climate change adaptation	B. Allocation Renewable	(ii) Utility aggregation	C. Mitigation Policies	(iii) Sustainable use	D. Farm Records	(iv) Efficiency tracking	
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103	Which of the following can be derived using duality principles from the profit function in microeconomic theory?														
	a) Cost only	b) Supply and demand	c) Production only	d) None	Answer b										

104	Applied operations research uses which strategy in game-theoretic models of auctions to maximise expected utility or payoff?														
	a) Underbid	b) Overbid	c) Bid true value	d) Random	Answer c										
105	What is Green GNP?														
	a) GDP from renewable energy	b) Total agricultural output	c) National income from green industries	d) Gross National Product adjusted for environmental degradation	Answer d										
106	Poverty in economic terms is an														
	a) Lack of luxury goods	b) Inability to meet basic needs due to insufficient income	c) High unemployment	d) Income inequality	Answer b										
107	Natural resource economics means														
	a) Study of man-made resources	b) Analysis of allocation and management of natural resources	c) Focus on financial markets	d) Examination of labor markets	Answer b										
108	Externalities means														
	a) Costs or benefits affecting third parties not involved in a transaction	b) Internal costs of production	c) Direct taxes	d) Government subsidies	Answer a										
109	Match the research methods (List I) with their tools (List II). <table><tr><td>List I</td><td>List II</td></tr><tr><td>A. Sampling</td><td>(i) Variance analysis</td></tr><tr><td>B. Hypothesis Testing</td><td>(ii) Selecting subset</td></tr><tr><td>C. ANOVA</td><td>(iii) Relationship modeling</td></tr><tr><td>D. Regression</td><td>(iv) Statistical validation</td></tr></table>				List I	List II	A. Sampling	(i) Variance analysis	B. Hypothesis Testing	(ii) Selecting subset	C. ANOVA	(iii) Relationship modeling	D. Regression	(iv) Statistical validation	
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110	Match the statistical measures (List I) with their uses (List II). <table><tr><td>List I</td><td>List II</td></tr><tr><td>A. Mean</td><td>(i) Distribution asymmetry</td></tr></table>				List I	List II	A. Mean	(i) Distribution asymmetry							
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A. Mean	(i) Distribution asymmetry														

	B. Variance		(ii) Average value		
	C. Correlation		(iii) Spread of data		
	D. Skewness		(iv) Relationship strength		
	a) A-iii, B-ii, C-i, D-iv	b) A-i, B-iv, C-ii, D-iii	c) A-ii, B-iii, C-iv, D-i	d) A-iv, B-i, C-iii, D-ii	Answer c
111	Match the economic policies (List I) with their focuses (List II).				
	List I	List II			
	A. Monetary Policy	(i) Government spending/taxation			
	B. Fiscal Policy	(ii) Money supply control			
	C. Trade Policy	(iii) Input/output pricing			
	D. Agricultural Policy	(iv) Import/export regulations			
	a) A-ii, B-i, C-iv, D-iii	b) A-i, B-iii, C-ii, D-iv	c) A-iii, B-iv, C-i, D-ii	d) A-iv, B-ii, C-iii, D-i	Answer a
112	Assertion (A): Cobb-Douglas function is widely used in agriculture. Reason (R): It captures diminishing returns.				
	a) Both A and R are true, R explains A	b) Both true, R does not explain A	c) A true, R false	d) A false, R true	Answer a
113	Assertion (A): Market integration reduces price disparities. Reason (R): Efficient transportation links markets.				
	a) Both A and R are true, R explains A	b) Both true, R does not explain A	c) A true, R false	d) A false, R true	Answer a
114	Assertion (A): Futures markets aid price discovery. Reason (R): They allow hedging against risks.				
	a) Both A and R are true, R explains A	b) Both true, R does not explain A	c) A true, R false	d) A false, R true	Answer a
115	Assertion (A): WTO promotes fair trade. Reason (R): It reduces barriers and enforces rules.				
	a) Both A and R are true, R explains A	b) Both true, R does not explain A	c) A true, R false	d) A false, R true	Answer a
116	What conclusion is drawn in ANOVA when the F-statistic exceeds the critical value?				
	a) Accept null	b) Reject null	c) Indifferent	d) Retry	Answer b

117	If correlation $r=0.8$, relationship is?														
	a) Weak positive	b) Strong positive	c) Negative	d) None	Answer b										
118	What is the internal rate of return (IRR) that makes the net present value (NPV) equal to zero, and under what condition is the investment considered viable if the IRR is approximately 15%?														
	a) Yes	b) No	c) Depends	d) Always	Answer a										
119	What relationship holds between the primal and dual solutions in linear programming when both are feasible and bounded?														
	a) True	b) False	c) Sometimes	d) Never	Answer a										
120	Method for price forecasting is														
	a) Static	b) Time series analysis	c) Guess	d) Average	Answer b										
121	The process of OLS estimation is														
	a) Minimise the sum of squared errors	b) Maximise	c) Average	d) None	Answer a										
122	Analyse multicollinearity in regression.														
	a) None	b) Low	c) High correlation among predictors	d) Positive only	Answer c										
123	Method for non-renewable resource allocation?														
	a) Random	b) Hotelling rule	c) Fixed	d) Infinite	Answer b										
124	The process of PERT/CPM is a														
	a) None	b) Linear	c) Static	d) Network diagram for scheduling	Answer a										
125	Match advanced stats (List I) with uses (List II). <table><tr><td>List I</td><td>List II</td></tr><tr><td>A. MLE</td><td>(i) Categorical predictors</td></tr><tr><td>B. Dummy Variables</td><td>(ii) Likelihood estimation</td></tr><tr><td>C. Simultaneous Equations</td><td>(iii) Endogenous vars</td></tr><tr><td>D. Price Programming</td><td>(iv) Variable prices in LP</td></tr></table>				List I	List II	A. MLE	(i) Categorical predictors	B. Dummy Variables	(ii) Likelihood estimation	C. Simultaneous Equations	(iii) Endogenous vars	D. Price Programming	(iv) Variable prices in LP	
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126	Match resource policies (List I) with focus (List II).														

	List I		List II		
	A. Transaction Costs		(i) Commons management		
	B. Property Rights		(ii) Ownership clarity		
	C. Collective Action		(iii) Bargaining expenses		
	D. Valuation Non-Market		(iv) Shadow pricing		
	a) A-iii, B-ii, C-i, D-iv	b) A-i, B-iii, C-iv, D-ii	c) A-ii, B-iv, C-ii, D-i	d) A-iv, B-i, C-iii, D-ii	Answer a
127	Match OR methods (List I) with advanced (List II).				
	List I		List II		
	A. Variable Resource LP		(i) Payoff matrix		
	B. Game Theory		(ii) Shadow prices		
	C. Dual LP		(iii) Grouping data		
	D. Cluster Analysis		(iv) Changing inputs		
	a) A-ii, B-iii, C-iv, D-i	b) A-i, B-ii, C-iii, D-iv	c) A-iv, B-i, C-ii, D-iii	d) A-iii, B-iv, C-i, D-ii	Answer c
128	In applied agricultural marketing, what does a high price spread indicate about market efficiency?				
	a) Neutral	b) High	c) Low	d) Zero	Answer c
129	Which of the following is the most appropriate policy option for promoting sustainable agriculture?				
	a) Ignore	b) Chemical heavy	c) Organic farming	d) Urbanise	Answer c
130	Agricultural finance is a				
	a) Funding for urban development	b) International loans	c) Stock market investments	d) Provision of credit and financial services for agricultural activities	Answer d
131	Project management in agriculture indicates				
	a) Marketing strategies	b) Daily farm operations	c) Planning and executing agricultural projects for development	d) Policy formulation	Answer c

132	Agricultural marketing means														
	a) Process of moving agricultural products from farm to consumer	b) Production of crops	c) Financial accounting	d) Resource allocation	Answer a										
133	Price analysis refers to the														
	a) Study of cost structures	b) Supply chain management	c) Demand forecasting	d) Examination of factors influencing prices of agricultural commodities	Answer d										
134	Match the resource valuation methods (List I) with their applications (List II). <table><tr><th>List I</th><th>List II</th></tr><tr><td>A. Contingent Valuation</td><td>(i) Environmental amenities</td></tr><tr><td>B. Hedonic Pricing</td><td>(ii) Non-market goods</td></tr><tr><td>C. Travel Cost</td><td>(iii) Recreation sites</td></tr><tr><td>D. Production Function</td><td>(iv) Input contribution</td></tr></table>				List I	List II	A. Contingent Valuation	(i) Environmental amenities	B. Hedonic Pricing	(ii) Non-market goods	C. Travel Cost	(iii) Recreation sites	D. Production Function	(iv) Input contribution	
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135	Match the farm efficiency measures (List I) with their formulas (List II). <table><tr><th>List I</th><th>List II</th></tr><tr><td>A. Returns to Scale</td><td>(i) Output change with all inputs</td></tr><tr><td>B. Resource Use Efficiency</td><td>(ii) Value of foregone alternative</td></tr><tr><td>C. Total Factor Productivity</td><td>(iii) Output per input</td></tr><tr><td>D. Opportunity Cost</td><td>(iv) Output/input ratio</td></tr></table>				List I	List II	A. Returns to Scale	(i) Output change with all inputs	B. Resource Use Efficiency	(ii) Value of foregone alternative	C. Total Factor Productivity	(iii) Output per input	D. Opportunity Cost	(iv) Output/input ratio	
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136	Match the credit sources (List I) with their types (List II). <table><tr><th>List I</th><th>List II</th></tr><tr><td>A. Commercial Banks</td><td>(i) Microfinance Institutions</td></tr><tr><td>B. Cooperatives</td><td>(ii) Regional Rural Banks</td></tr></table>				List I	List II	A. Commercial Banks	(i) Microfinance Institutions	B. Cooperatives	(ii) Regional Rural Banks					
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A. Commercial Banks	(i) Microfinance Institutions														
B. Cooperatives	(ii) Regional Rural Banks														

	C. MFIs	(iii) Member-owned			
	D. RRBs	(iv) Profit-oriented			
	a) A-ii, B-i, C-iv, D-iii	b) A-i, B-ii, C-iii, D-iv	c) A-iv, B-iii, C-i, D-ii	d) A-iii, B-iv, C-ii, D-i	Answer c
137	Assertion (A): Linear programming optimizes under constraints. Reason (R): It uses objective function and inequalities.				
	a) Both A and R are true, R explains A	b) Both true, R does not explain A	c) A true, R false	d) A false, R true	Answer a
138	Assertion (A): Game theory models conflicts. Reason (R): It assumes irrational players.				
	a) Both A and R are true, R explains A	b) Both true, R does not explain A	c) A true, R false	d) A false, R true	Answer c
139	Assertion (A): Fiscal policies stabilize economy. Reason (R): They adjust spending and taxes.				
	a) Both A and R are true, R explains A	b) Both true, R does not explain A	c) A true, R false	d) A false, R true	Answer a
140	Which of the following represents an analytical method used to assess risk in agriculture?				
	a) Ignore	b) Sensitivity analysis	c) Average	d) Sum	Answer b
141	Which condition is used to derive the supply function from the production function in microeconomic theory?				
	a) Marginal cost = price	b) Average cost	c) Total cost	d) Fixed cost	Answer a
142	The process of SWOT in project management is a				
	a) Financial only	b) None	c) Marketing only	d) Identify strengths, weaknesses, opportunities, threats	Answer d
143	Which of the following best represents the analytical framework used to examine market structure, firm conduct, and performance in industrial organization economics?				
	a) Price only	b) Random	c) SCP paradigm	d) Quantity only	Answer c
144	Assertion (A): MLE handles non-normal data. Reason (R): Maximises likelihood.				

	a) Both A and R are true, R explains A	b) Both true, R does not explain A	c) A true, R false	d) A false, R true	Answer a
145	Assertion (A): Dummy variables capture qualitative effects. Reason (R): In regression models.				
	a) Both A and R are true, R explains A	b) Both true, R does not explain A	c) A true, R false	d) A false, R true	Answer a
146	Which of the following best describes the process involved in buffer stock operations used in agricultural price stabilisation?				
	a) Buy all	b) Hoard	c) Sell all	d) Stabilise prices by buying/selling	Answer d
147	Analyse simultaneous equations.				
	a) None	b) OLS direct	c) Use 2SLS for estimation	d) Average	Answer c
148	Which of the following represents a method for applying game theory in agricultural decision-making and policy analysis?				
	a) Model farmer-buyer negotiations	b) Ignore strategy	c) Fixed	d) None	Answer a
149	Assertion (A): IS-LM model analyzes equilibrium. Reason (R): It combines goods and money markets.				
	a) Both A and R are true, R explains A	b) Both true, R does not explain A	c) A true, R false	d) A false, R true	Answer a
150	Assertion (A): Climate change impacts resource allocation. Reason (R): It alters availability of water and land.				
	a) Both A and R are true, R explains A	b) Both true, R does not explain A	c) A true, R false	d) A false, R true	Answer a