Test Booklet No.	
This booklet consists of 150 quest	ions and 19 printed pages.
RGUPET/2024//_	

RGUPET 2024 Common Entrance Test, 2024 DOCTOR OF PHILOSOPHY IN AGRONOMY

Full Marks Hours	s: 150				Time: 3		
Roll No.							
Day and Da	ate of Exam	ination:					
Signature o	f Invigilator	r(s)					
Signature o	Signature of Candidate						
C 1.1							

General Instructions:

PLEASE READ ALL THE INSTRUCTIONS CAREFULLY BEFORE MAKING ANY ENTRY.

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

1	Who won the Ballon d'Or 2023						
	a) Cristiano	b) Lionel	c) Erling	d) Karim	b		
	Ronaldo	Messi	Haaland	Benzama			
2	Which of the follow						
	A) CO ₂ is the main component of greenhouse effect						
	B) N ₂ O has higher g						
	C) Methane product						
	D) Highest methane			1) O 1 D			
	a) Only A	b) A&B	c) B, C&D	d) Only D	b		
3	Which Tribe of Arun	1		· · · · · · · · · · · · · · · · · · ·			
4	a) Monpa	b) Galo	c) Nyishi	d) Adi	С		
4	World water Day is a) 22 nd March		a) 21 St A	d) 20 th March			
5	/	b) 22 nd April	c) 21 st April	d) 20 th March	a		
3	Ayushman Bharat S	cheme is related	10				
	a) Health	b) Agriculture	c) Pension	d) Poverty	a		
	insurance	insurance	c) i clision	alleviation	a		
6	Anusandhan Nation		l Idation Act estab				
	year	ai itoboaion i Oui	idation i tot estau	moned in winter	С		
	a) 2024	b) 2021	c) 2023	d) 1993	2023		
7	Elon Mask launched			ernet service in	Answer		
'	Indonesia.	*			option		
					(a)		
	a) Starlink	b) Weather	c) Cloud link	d) Data link	` /		
	,	link	,	,	Starlink		
8	The G20 Summit 20	23, held in India	, focused on whi	ch of the following:			
	A. Climate Change				Answer		
	B. Global Health				option		
	C. Digital Transform				(a,b,c or d)		
	D. Military Alliance	es					
) A D 0 D 1	1) A D 0 C	\D C0 D	1) A CO D 1	1) A D 0 C		
	a) A, B & D only	b)A, B &C	c)B, C& D	d)A, C& D only	b) A, B &C		
		only	only		only		
9	Which of the fellow	ing is true record	ling the Earth's 1	Overe:			
9	Which of the follow	ing is true regard	mig me Earth's la	ayers:			
	A. The inner co	re is made up of	solid rock				
		s composed prin		on and nickel	b		
		ere is part of the	• •				
		the thickest layer		P.11010.			
	a) D	b) C	c) B	d) A	The		
	, –	,	, –) 	lithosphere		
					is part of		
					the Earth's		
					asthenosph		
					ere		
10	Who won the gold	medal for India	in the Men's Ja	velin Throw at the	Answer		
	Tokyo Olympics 20				option		
					(a,b,c or d)		
	a) Neeraj Chopra	b) Annu Rani	c) Davinder	d) Shivpal Singh	a		
L			Singh Kang				
	•			•			

11	The study of stars is known as				
	a) astrology	b) astronomy	(c)	d) spaceology	astronomy
			anthropology		
12	Choose direct form	of speech from	the given option.		
	She says "I am a bit	busy today."			
	a) She said that she	b) She said	/	/	
	was a bit busy that	she is busy	_		(c)
	today	today.	today.	said by her.	
13	Which of the follow	ing sentences i	 s correct v arrange	 ed?	Answer
		8			option
					(b)
	a)The quietly river	b)The rive	r c) Under the	d)The river under	Answer
	flowed under the	quietly	quietly bridge	the bridge quietly	The river
	bridge.	flowed unde	r flowed the	flowed.	quietly
		the bridge.	river.		flowed
					under the
					bridge.
14	Find the incorrect p	hrase(s) in the	following sentence	ee:	
	T, 1 / 1	, ,	.1		
	It was her / who can	ne / runnıng / o	n the room.		A
	A It 1				Answer
	A. It was her B. who came				option
	C. running				С
	D. on the room				
	D. on the room				
	a) A only	b) B and D	c) A and D	d) D only	A and D
	,	only	only		only
15	Match the columns:				
	A. battalion	1:	Cyre		Answer
	A. battalion B. surrender		. Sun i. herd		option
	C. cattle		ii. docile		a
	D. eclipse	1.	v. army		
	a)A –iv, B-iii, C-ii,	b)A –ii, B-iv		d) A –iv, B-i, C-ii,	A –iv, B-
	D-i	C-iii, D-i	C-iv, D-i	D-iii	iii, C-ii, D-
		, , , , , , , , , , , , , , , , , , ,			i
16	How many 4-digit r	numbers can be	formed using the	digits 0,1,2,3,4,5,6	A m ======
	which are greater that		_	•	Δncwer
					(a,b,c or d)
	1000	1) 1000	1042	1) 31 (1)	, ,
	a) 1029	b) 1028	c) 1043	d) None of these	(b)
17	How many seconds	•	ake to cover a dista	ance of 400 m, if he	Answer
	runs at a speed of 20) km/h?			option
					(a,b,c or d)
	a) 72 seconds	b) 62 seconds	c) 75 seconds	d) 80 seconds	
10	· ·	<u> </u>	<u> </u>		(a)
18	From a point X on a				
	Temple is 30°. If the	c distance from	the foot of the ter	inpie to the point X	

	is 173 m, then the height of the temple is: (given $\sqrt{3} = 1.73$)Which one of the following is a disaccharide					
			ıııu		1) 70	
	a) 100 m	b) 200 m		c) 150m	d) 50 m	a
19	The arithmetic mean	 of the first 1	1	atural numbara i	<u> </u>	
19	a) 11	b) 5.5	. 1 11	c) 6.0	d) 6.5	6.0
20	/	,	- f		/	0.0
20	If 2 men or 6 wome	-			•	d
	days will one man, of same work?	u				
	a) 44 days	b) 104 days		c) 64 days	d) 108 days	108 days
21	Choose the correct s				u) 106 days	100 days
21	A. It is situated at N		ut 1	CKISAT.		
	B. Its main focus is		eror	os		C
	C. Headquarter is lo	_	-			
	D. Rice is their main			, 11) 0010000		
	a) A	b) B		c) C	d) D	С
22	Copying the work o	,	s ir	,	/	-
	a) Self-plagiarism	b) Indirect		c) Direct	d) Patch writing	
		plagiarism		plagiarism	,	d
23	Choose the correct i		ne g	1 0	•	
	A. CAZRI		i.	Tamil Nadu		
	B. CRIDA		ii.	Jodhpur		
	C. NCOF		iii	. Ghaziabad		
	D. SBI		iv	. Hyderabad		
	a) A-ii, B-iv, C-iii,	b) A-ii, B	i-i,	c) A-iv, B-i,	d) A-iv, B-iii, C-i,	
	D-i	C-iii, D-iv		C-iii, D-ii	D-ii	a
24	Which of the follow	ing is not a p	rino	ciple of research	ethics?	
	a) Honesty	b) Integrity		c)	d) Legality	c
				Incompetence		
25	Which of the follow	_			1	
	A. Ethics in research					
	B. Plagiarism is aga be taken against the		pie	s of morality, but	no legal action can	
	_		CC	ommon set of a	dos and don'ts of	
	conducting ethical r	-	CC	offillion set of C	dos and don is of	
	_		cie	etal problems and	the observation of	
	a researcher	o nom me se	,010	and problems and	. and dober varion of	
	a) A, B & C	b) A, C & D)	c) Only B	d) B & C	b
26	Given below are two					c
	is labelled as Justific					
	A. Assertion: A res	earcher has to	o ob	oserve codal forn	nalities at all stages	
	without scope and le	eeway for off	end	ing moral and et	hical norms	
	B. Justification: In respect of data collection, data analysis and					
	interpretation there					
	vulnerable					
	Choose the correct answer from the options given below:					
			3 1S	not the correct ju	istification of A	
	2. A is false bu		. .	41	Castian - CA	
			3 1S	the correct justif	ncation of A	
	4. B is false bu	b) 2		c) 3	d) 4	0
27	a) 1 The long-term fertil	,	nt i		u) +	С
41	The folig-ferril ferril	izei experime	/IIt	is iocaltu al		

		ı	ı	1	1	
	a) IARI-New Delhi	b) Bhopal	c) Pantnagar	d) Jhansi	b	
28	As per copyright laworks for	iws, 'Fair-use' a	llows the limite	d use of copyright		
	a) Commercial use	b) Educational purpose	c) Making videos	d) Making paid online courses	b	
29	The ethical consider	rations in researc	h include:			
	A. Privacy as an ins	ignificant issue				
	B. Informed consen					
	C. Free copying from	m books and jour	rnals			
	D. Proper referencing	•				
	Choose the correct a		options given bel	low:		
	a) Only A & B		c) Only B & D		c	
30	Two statements are	given below: O	ne is labelled as	s Assertion and the		
	other is labelled as J	ustification				
	A. Assertion: A research	arch thesis has to	follow a prescrib	ped format and style		
	of referencing.					
	B. Justification: Thi	s ensures the obs	ervance of resea	rch ethics.		
	Choose the most ap	propriate answer	from the options	s given below:	a	
	1. A is correct	but B is not corre	ect			
	2. A is not corr	ect but B is corre	ect			
	3. Both A & B	are correct and E	is the correct ex	xplanation of A		
	4. Both A & B	are correct but B	is not the correc	et explanation of A		
	a) 1	b) 2	c) 3	d) 4	a	
31	Which of the follo	wing is most re	elevant cultivation	on practices in the		
	current scenario?					
	a) Conventional	b) Climate	c) Input	d) Monocropping		
	farming	resilience	intensive		b	
		practices	cultivation			
32	Using other people'		at giving proper of	credit is termed as		
	a) Fabrication	b)	c) Copying	d) Plagiarism	d	
		Falsification			u	
33	Which of the follow		per drop more cr			
	a) Flood irrigation	b) Furrow	c) Drip-	d) Alternate	c	
		irrigation	irrigation	wetting and		
				drying		
34	Given below are two	o statements: one	e is labelled as A	ssertion A and the		
	other as Reason R .					
	Assertion A: Deep 1			_		
	Reason R: Broadca					
	In the light of the above statement, choose the correct answer from the					
	options given below:					
	1. Both A and R are		_			
	2. Both A and R are		correct explanat	tion of A		
	3. A is true but R is					
	4. R is true but A is		Τ , -	Ι	_	
	a) 1	b) 2	c) 3	d) 4	3	
35	Given below are two	o statements: one	e is labelled as A	ssertion A and the		
	other as Reason R .				1	
	Assertion A : Jhum	cultivation is a si	absistence type o	of farming		

	Reason R: Agrofore						
	In the light of the ab						
	options given below						
	1. Both A and R are			-			
	2. Both A and R are		is the	correct explanat	tion of A		
	3. A is true but R is	false					
	4. R is true but A is	false					
	a) 1	b) 2		c) 3	d) 4	a	
36	Which of the follow	ing is corre	ctly r	natched?			
	1. Indian journ	al of Agrono	omy-	ISA			
	2. The Indian jo	ournal of Ag	gricu	ltural sciences- E	Elsevier	a	
	3. Scientific rep	ports- Wille	y				
	4. Field crops r	esearch- Na	ature				
	a) 1	b) 2		c) 3	d) 4	a	
37	Choose the correct	t match fo	r pla	agiarism level a	according to UGC		
	regulations, 2018 or		-		C		
	A Level 0		i Siı	milarities above 4	40% to 60%		
	B Level 1		ii Si	milarities above	60%		
	C Level 2			imilarities up to			
	D Level 3			imilarities above			
	a) A-iii, B-iv, C-i,	b) A-iv, E			d) A-iii, B-iv, C-		
	D-ii	C-i, D-ii	, 111,	iii, D-iv	ii, D-i	a	
38	What does impact fa	,	e in i	· ·	11, D-1		
30	a) Number of	b) Number		c) Number of	d. Number of	a	
	citations a journal	articles	1 01	articles	authors in an	а	
	receives	published	in o	received in a	article		
	receives	journal	ша		article		
39	journal year Which of the following is an erosion prevention measure?						
39	a) Monocropping	b) Residue		c) Repeated	d) Grassed water-		
	a) Wonocropping	burning		ploughing	· ·	d	
40	Two statements are			prougning	ways		
10	A: In India, the Con	_		demic and Resea	urch Ethics (CARE)		
	has been established						
	research journals.	a by ode	to pi	cpare and mann	tain fists of quality		
	B: Guidance docum	ent: Good	Δ cad	emic Research P	Practices (2020) has		
	been published by C		Teau	cime research i	ractices (2020) has	b	
	Choose the correct a		the a	ontions given he	low.		
	1. Both statement			•	10 YV .		
				nent B is false			
	3. Both statement						
				ement B is true			
<u> </u>	a) 1	b) 2	State	c) 3	d) 4	b	
41	Which of the follow	/	ic no			d	
71	a) Reference	b)	13 110	c) Controlling	d) Manipulation	Manipulati	
	collection	Observation	n n	Controlling	u) manipulation	1	
42		l .		e recensol mass	gg?	on d	
42	Which of the follow						
	a) Preface writing	b) Researce	-11	c) Summary	d) Report writing	Report	
42	Vymtogia mafe 4. 41	note		writing		writing	
43	Kurtosis refers to th	1		a) Ta!1	4) Correct 1 - C	d	
	a) Symmetry of a	b) Asymm	•	c) Tails of a	d) Spread of a	Spread of a	
	distribution	of	a	distribution	distribution	distribution	
		distributio	n				

44	Which of the following is NOT a feature of Google Scholar?						
	a) Citation	b) Social	c) Advanced	d) Author profiles	Social		
	tracking	media	search	, -	media		
		integration	options		integration		
45	In a dataset {3, 5, 2,	5, 7, 5, 8}, what	is the mode?		С		
	a) 2	b) 3	c) 5	d) 35	5		
46	In a normal distribu	tion, what percen	tage of data falls	s within one	1		
	standard deviation f				ь		
	a) Approximately	b)	c)	d) Approximately	A		
	95 %	Approximatel	Approximatel	50 %	Approxima		
		y 68 %	y 99.7 %		tely 68 %		
47	Data related to geop	hysical character	ristics are called		d		
	a) Demographic	b)	c) Physical	d) Territorial data	Territorial		
	data	Atmospheric	data		data		
		data			data		
48	The literature availa	ble in a library c	an give		ь		
	a) primary data	b) secondary	c) both	d) no data			
		data	primary and		secondary		
			secondary		data		
			data				
49	Which of the follow	ving body(ies) is	are 'TRUE' that	t is associated with			
	the grant of funds to	higher education	n in India?				
	A.		UGC				
	B.		State		۵)		
	Government				a)		
	C. Municipal						
	Corporation and Zi	Corporation and Zilla Parishad.					
	D.	Central					
	Government						
		b) A-False, B-	/				
			· ·	True, C-False, D-	· ·		
	False	D-True	D-True	True	False, D-		
					False		
50	Which of the follow	•					
		_	research projec	t, it is best to keep			
	the topic very broad		1 1 4				
		eview should sin	nply be a "recap"	' of one article after	b)		
	another. C. Peer-reviewed means that research has been reviewed and						
	evaluated by experts		-				
	D. When possible, it is important to review literature that is non-peer-reviewed to help ensure more academic-based quality of research.						
	a) A-True, B-True,	b) A-False, B-			A-False, B-		
	C-True, D-False		True, C-False,		False, C-		
	True, D-raise	D-False	D-False	False	True, D-		
		2 1 4150	2 1 4150	1 4100	False		
51	Choose the correct s	i Statement about c	onservation agri	ı culture:	1 4150		
	A. Herbicides is not		_	canaic.			
	B. About 30% area s		_	lues			
	C. Monocropping is		-				
	D. Crop rotation is r		agiioui	-			
<u> </u>					I		

				1	T		1
	a) A &B	b) B		c) C & D	d) B & C		b
52	Which of the follow						
	A. Capillary and no						
	B. Lower water rete		y				
	C. Soil should be le						
	D. Compacted uppe	r soil layer					
	a) A	b) B & C		c) C & D	d) B		a
53	Which of the follow	ing statemen	ts is	s/are true?			
	A. Area under rice-v	wheat cropping	ıg s	ystem is about 10	0.5 mha in India		
	B. Rice-wheat is the	e most import	ant	cropping system	of India		
	C. Productivity of ri	ice is the high	est	in Arunachal Pra	ıdesh		
	D. Millets are not commonly grown in Arunachal Pradesh						
	a) A & B	b) A		c) A, B & C	d) C&D		a
54	Choose the correct s	statement abo	ut a	lternate land use	system:		
	A. Land capability-	based croppin	ıg p	ractices			
	B. Intensive cropping						
	C. No substitution of	of the existing	cro	pps			
	D. Does not followed	_		-			
	a) A	b) B & C		c) C & D	d) C		a
55	Which of the follow	ing statemen	t is/	are true?			
	A. Allelopathy cann				ment		
	B. Allelopathy can b	oe employed t	for	weed managemen	nt		
	C. Allelopathy is a c	chemical co-a	ctic	on			
	D. Allelopathic crop	can be grow	n a	s intercrop			
	a) A&B	b) B&C		c) B	d) B, C & D		b
56	Choose the correct s	statement					
	A. Lime is used for	reclaiming sa	line	e soil			
	B. Gypsum is used:	for reclaiming	gac	idic soil			
	C. Lime is used for	reclaiming ac	idio	e soil			
	D. Waterlogging ov	ercome salini	ty				
	a) A &B	b) B & D		c) C	d) B & C		c
57	Choose the correct i	match of suita	ıble	rhizobium speci	es for different		
	crops:						
	A Rhizobium trifol	i	i S	Soybean			
	B Rhizobium japor	nicum	ii	Berseem			
	C Rhizobium melil	oti	iii	Lentil			
	D Rhizobium legur	ninosarum	iv	Alfalfa			
	a) A-ii, B-i, C-iv,	b) A-ii, B-i,		c) A-iv, B-i,	d) A-iv, B-iii, C	C-i,	a
	D-iii	C-iii, D-iv		C-iii, D-ii	D-ii	-	
58	Choose the correct i	match for nitr	oge		lizers:		
	A. Ammonium sul			26 %			
	B. Monoammonium ii. 16 %						
	phosphate C. Ammonium phosphate sulphate iii. 20 %						
	D. Ammonium chloride iv. 12 %						
	a) A-i, B-ii, C-iii,	b) A-iii, B-i	i,	c) A-iii, B-iv,	d) A-i, B-iii, C-	iv,	С
	D-iv	Ć-iv, D-i	-	Ć-ii, D-i	Ď-ii		
59	Which of the follow	ing is correct	ly 1	natch?			
	A. Perennial weeds-						
	B. Annual weeds- sy						
	C. Perennial weeds-						
						_	

	D. Phalaris minor-	dicot weeds			
	a) A	b) B & D	c) C & D	d) B	a
60	Choose the correct i	,			-
00	concentration in niti			Diaret	
	A. Biuret- 1.9%	ogenous rerunze	. 1		
	B. Biuret- 1.5%				
	C. Biuret- 2.5%				
	D. Biuret- 2%				
	a) A &B	b) B	c) C & D	d) B & C	b
61	Which is the first he	/	/	(a) B & C	
01	a) Pusa Basmati	b) Pusa	c) Pusa	d) Pusa Basmati	a
	1985	Basmati 1911	Basmati 1912	1958	"
62	Choose the correct i			1730	
02	A. Criteria for nutric				
	B. Law of minimum		Licoig		
	C. Criteria for nutrie		Arnon & Stout		
	D. Law of diminishi				
	a) A &B	b) B	c) C	d) B & C	c
63	Choose the correct i	,	1 5, 5	1 4) D & C	
03	A. Two factors- Spli				
	B. One factor- Split				
	C. Three factors- CI				
	D. Two factors- RC				
	a) A	b) B	c) C & D	d) B & C	a
64	The intra-specific cl	,	/	(d) B & C	a
UT	a) Autoallelopathy	b)	c) Allelopathy	d) Allelospoly	a
	a) Autoanciopatily	Alloallelopath	c) Anciopatily	d) Allelospory	a
		Anoanciopaui			
65	Dredging and chain	ing is an obsolete	e weed control m	ethod for	
03	a) Annual weeds	b) Perennial	c) Aquatic	d) Biennial	c
	a) Aimuai weeds	weeds	weeds	weeds	
66	Which of the follow				
00	a) Glyphosate	b) Paraquat	c) Diquat	d) Atrazine	9
67	Phalaris minor have		L / L		a
0 /	a) Glyphosate	b) Paraquat	c) 2,4-D	d) Isoproturon	d
68	Glyphosate inhibits	o) i araquat	() 2, 4 -D	a) isopioiuioii	u
00		h) EDCD	c) ALS	d) DC 1	h
	a) ACCase	b) EPSP synthase	CJALS	d) PS-1	b
60	The minimum of fin	•	D dogian is		
69	The minimum d.f. roal 12	b) 10	c) 14	d) 11	
70	/	,	/	,	a
70	Calculate the error of		•	_	
	times and six nutries				h
71	a) 22	b) 20	c) 15	d) 36	b
71	The experimental er				a
	a) Local control	b)	c) Replication	d) Both b&c	d
		Randomizatio			
70	A 11 11 00 11	<u>n</u>	1 1/	, 1	
72	Application of fertil				1
	a) Top dressing	b)	c) Pellet	d) Localised	d
72	G1 101'0 01' '11	Broadcasting	application	placement	
73	Shelf life of liquid b	ototertilizers is:			

All of the ove India? Red b Both b&c a
ove n India? Red b
ove n India? Red b
Red b
Red b
Red b
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	1. Both A and R are true and R is not the correct explanation of A						
	2. Both A and R are true and R is the correct explanation of A						
	3. A is true but R is	false					
	4. R is true but A is	false					
	a) 1	b) 2	c) 3	d) 4	b		
82	Given below are two	statements: one	e is labelled as A	ssertion A and the	3		
	other as Reason R .						
	Assertion A: Vermi						
	Reason R : Vermicompost are not recommended with fertilizer						
	In the light of the ab	·	hoose the correct	t answer from the			
	options given below						
	1. Both A and R are		-				
	2. Both A and R are		correct explanat	cion of A			
	3. A is true but R is						
	4. R is true but A is						
	a) 1	b) 2	c) 3	d) 4	c		
83	Who postulated Lav		,	.	Answer		
	a) Baule	b) Leibig	c)	d) Wilcox	b		
			Mitscherlich		В		
84	Remote sensing help		,	.			
	a) Cropped area	b) Flood	c) Both a & b	d) Cell structure	c		
		affected area					
85	ϵ						
	A. Using good quality seed is the only criterion to get high yield.						
	B. Cells of root nodules of leguminous plants fix nitrogen.						
	C. Growing different crops in different seasons in the same field will						
	deplete the soil of nutrients.						
	D. All crop plants ar			1, 2, 0, 0			
0.6	a) A, B & C	b) Only B	c) A, C & D	d) B & C	С		
86	Given below are two		is labelled as Ass	sertion and the other			
	is labelled as Justific		1 1'				
	A. Assertion: Jhum						
	time gap for the reco	-					
	B. Justification: Wit						
	recovery phase is eli		-				
	Choose the correct a a) Both A & B are		c) Both A & B	d) B is false but A			
	true but B is not the	but B is true	are true and B	is true	a		
	correct	out D is truc	is the correct	15 11 11 1			
	justification of A		justification				
	justification of 71		of A				
87	Which of the follow	ing statements is					
07	A. Planning commi	•		20 agro-ecological			
	zones.	ibbioli divided ti	ie country into	20 ugro ecorogicar			
	B. Assam is not a part of the Eastern Himalayan Agro-climatic zone.						
	C. Agro-climatic zon		•				
	soil, topography, wa			-			
	D. India has been di						
	a) Only A	b) Only C	c) Only B	d) B & C	b		
88	Two statements are	· ·		/			
	other is labelled as J	•					

A. Assertion: The castern coastal belt of Tamil Nadu remains relatively dry during south west monsoon. B. Justification: The Tamil Nadu coast lies in the rain shadow area of Arabian Sea current of south west monsoon. Choose the most appropriate answer from the options given below: a) A is correct but B is recorrect but B is is correct but B is but B i		· · · · · · · · · · · · · · · · · · ·						1		
B. Justification: The Tamil Nadu coast lies in the rain shadow area of Arabian Sea current of south west monsoon. Choose the most appropriate answer from the options given below: a) A is correct but B is not correct but B is not correct but B is is correct but B is but B but B is but B but		A. Assertion: The eastern coastal belt of Tamil Nadu remains relatively								
Arabian Sea current of south west monsoon. Choose the most appropriate answer from the options given below: a) A is correct but B is is correct but B is is correct but B is correct but B is in the correct but B is is the correct corplanation of A 89 Choose the correct match for crops and geographical conditions: A. Rice ii. Cool elimate and poor soil C. Millets iii. Warm, moist climate and rich soil C. iii. D-ii. D-ii. D-iii. D-iii. D-iii. D-iii. D-iii B Eastern Himalayan region i Rajasthan B Eastern Himalayan region i Rajasthan B Eastern Himalayan region i Rajasthan B Eastern Himalayan region i V Sikkim a) A.iii, B-iv, C-i, b) A-iii, B-iv, c) A-i, B-ii, C- d) A-ii, B-iv, C-i, b D-ii. D-iii U Sikkim a) A-iii, B-iv, C-i, b) A-iii, B-iv, c) A-i, B-ii, C- d) A-ii, B-iv, C-i, b D-ii U Sikkim a) Groundnut b) Rapesced c) Soybean d) Sunflower d Which of the following statements is/arc true? A. Drainage is the most important management strategy in dryland agriculture. B. Basic principle of dryland agriculture is increasing infiltration and decreasing runoff. C. Based on time of occurrence drought is classified into 4 types. D. Agronomic measures to conserve soil and water are mainly adopted in fields having slope of <6% a) A, B, C & D b) Only A & c) Only B d) Only B & D d Choose the correct match for		•								
Choose the most appropriate answer from the options given below: a) A is correct but b) A is not correct but B as recorrect but B as recorrect but B as not correct but B as recorrect but B as is not correct but B as recorrect but B as recorrect but B as recorrect but B as not treat and B is not correct but B as recorrect but B as not treat and B as not correct but B as recorrect but B as not treat and B as not correct but B as recorrect but B as not treat and because a construction of A A assertion and the other is labelled as Assertion and the other is labelled as Justification: a) A is correct match for crops and geographical conditions: A. Rice i. Cool climate and poor soil ii. Hot, dry climate and poor soil iii. Warm, moist climate and high altitude D. Tea iii. Hot, dry climate and rich soil as a littude D. Tea iii. Hot, B-i, C-iii, B-i, C-iii, D-iii D-iii a) A-i, B-ii, C-iii, b) A-ii, B-i, c) A-iv, B-i, d) A-iv, B-i, C-ii, d A. Western Himalayan region ii Bihar C. Middle Gangetic Plains iii Jammu & Kashmir R. Western Himalayan region iv Sikkim a) A-iii, B-iv, C-i, b) A-iii, B-iv, c) A-i, B-ii, C- d) A-ii, B-iv, C-i, b D-ii C-iii, D-i iii, D-iv D-iii gion D Western Dry region iv Sikkim a) Groundnut b) Rapeseed c) Soybean d) Sunflower mustard d 92 Which of the following statements is/are true? A. Drainage is the most important management strategy in dryland agriculture. B. Basic principle of dryland agriculture is increasing infiltration and decreasing runoff. C. Based on time of occurrence drought is classified into 4 types. D. Agronomic measures to conserve soil and water are mainly adopted in fields having slope of <6% a) A, B, C & D b) Only A & c) Only B d) Only B & D C Choose the correct match for location of research institutions: A. CAZRI ii Hyderabad B. ICRAF ii Jodhpur c. C-iv, D-i iii, D-i C. CaRDA iii Nairobi D. ICRISAT ii Hyderabad ii Nairobi D. ICRISAT ii Hyderabad ii Nairobi D. ICRIS						ain shadow area	a of			
a) A is correct but B is not correct but B is not correct but B is not correct but B is the correct coxplanation of A and the correct but B is										
B is not correct Correct but B is correct Siscorrect Siscorrect		Choose the most app	propriate a	nswer	from the options	given below:				
Second S		a) A is correct but	are							
Choose the correct match for crops and geographical conditions: A. Rice		B is not correct	correct 1	out B	are true and B	correct but E	3 is			
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A. Rice i. Cool climate and poorer soil B. Barley ii. Hot, dry climate and poor soil C. Millets iii. Warm, moist climate and high altitude D. Tea iv. Hot, moist climate and rich soil a) A-i, B-ii, C-iii, b) A-ii, B-i, c) A-iv, B-i, d) A-iv, B-i, C-ii, D-iv C-iii, D-iv C-iii, D-iii Ghoose the correct match for agro-climatic zones with the states: A Western Himalayan region i Rajasthan B Eastern Himalayan region ii Bihar C Middle Gangetic Plains iii Jammu & Kashmir region D Western Dry region iv Sikkim a) A-iii, B-iv, C-i, b) A-iii, B-iv, c) A-i, B-ii, C- d) A-ii, B-iv, C-i, D-ii D-iii D-iii 91 Plant used as an indicator plant for PWP a) Groundnut b) Rapeseed c) Soybean d) Sunflower mustard daried					explanation of	explanation of	fΑ			
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D. Tea iv. Hot, moist climate and rich soil										
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A Western Himalayan region i Rajasthan B Eastern Himalayan region ii Bihar C Middle Gangetic Plains iii Jammu & Kashmir region D Western Dry region iv Sikkim a) A-iii, B-iv, C-i, b) A-iii, B-iv, c) A-i, B-ii, C- d) A-ii, B-iv, C-i, b D-ii C-ii, D-i iii, D-iv D-iii 91 Plant used as an indicator plant for PWP a) Groundnut b) Rapeseed c) Soybean d) Sunflower mustard Which of the following statements is/are true? A. Drainage is the most important management strategy in dryland agriculture. B. Basic principle of dryland agriculture is increasing infiltration and decreasing runoff. C. Based on time of occurrence drought is classified into 4 types. D. Agronomic measures to conserve soil and water are mainly adopted in fields having slope of <6% a) A, B, C & D b) Only A & c) Only B d) Only B & D C 93 Choose the correct match for location of research institutions: A. CAZRI i Hyderabad B. ICRAF ii Jodhpur C. ICARDA iii Nairobi D. ICRISAT iv Lebanon a) A-i, B-ii, C-iii, b) A-iv, B-iii, c) A-ii, B-iii, d) A-ii, B-iv, C-ci, D-iv C-i, D-ii iii Nairobi D-iv C-i, D-ii C-iv, D-i iii, D-i 94 Two statements are given below: One is labelled as Assertion and the other is labelled as Justification A. Assertion: Deep tillage is not normally recommended in dryland agriculture B. Justification: Deep tillage can disrupt the soil structure and lead to	00				·					
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Mustard Must	91	Plant used as an ind	icator plar	nt for P	PWP					
Multiply		a) Groundnut	b) Rape	eseed-	c) Soybean	d) Sunflower				
A. Drainage is the most important management strategy in dryland agriculture. B. Basic principle of dryland agriculture is increasing infiltration and decreasing runoff. C. Based on time of occurrence drought is classified into 4 types. D. Agronomic measures to conserve soil and water are mainly adopted in fields having slope of <6% a) A, B, C & D b) Only A & c) Only B d) Only B & D d Choose the correct match for location of research institutions: A. CAZRI i Hyderabad B. ICRAF ii Jodhpur C. ICARDA iii Nairobi D. ICRISAT iv Lebanon a) A-i, B-ii, C-iii, b) A-iv, B-iii, c) A-ii, B-iii, d) A-ii, B-iv, C-D-iv C-i, D-ii C-iv, D-i iii, D-i Two statements are given below: One is labelled as Assertion and the other is labelled as Justification A. Assertion: Deep tillage is not normally recommended in dryland agriculture B. Justification: Deep tillage can disrupt the soil structure and lead to			mustard					a		
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decreasing runoff. C. Based on time of occurrence drought is classified into 4 types. D. Agronomic measures to conserve soil and water are mainly adopted in fields having slope of <6% a) A, B, C & D b) Only A & c) Only B d) Only B & D d C		B. Basic principle of	of dryland	l agric	ulture is increas	ing infiltration	and			
D. Agronomic measures to conserve soil and water are mainly adopted in fields having slope of <6% a) A, B, C & D b) Only A & c) Only B d) Only B & D d Choose the correct match for location of research institutions: A. CAZRI i Hyderabad B. ICRAF ii Jodhpur C. ICARDA iii Nairobi D. ICRISAT iv Lebanon a) A-i, B-ii, C-iii, b) A-iv, B-iii, c) A-ii, B-iii, d) A-ii, B-iv, C-D-iv C-i, D-ii C-iv, D-i iii, D-i 74 Two statements are given below: One is labelled as Assertion and the other is labelled as Justification A. Assertion: Deep tillage is not normally recommended in dryland agriculture B. Justification: Deep tillage can disrupt the soil structure and lead to			•	C		C				
D. Agronomic measures to conserve soil and water are mainly adopted in fields having slope of <6% a) A, B, C & D b) Only A & c) Only B d) Only B & D d Choose the correct match for location of research institutions: A. CAZRI i Hyderabad B. ICRAF ii Jodhpur C. ICARDA iii Nairobi D. ICRISAT iv Lebanon a) A-i, B-ii, C-iii, b) A-iv, B-iii, c) A-ii, B-iii, d) A-ii, B-iv, C-D-iv C-i, D-ii C-iv, D-i iii, D-i 74 Two statements are given below: One is labelled as Assertion and the other is labelled as Justification A. Assertion: Deep tillage is not normally recommended in dryland agriculture B. Justification: Deep tillage can disrupt the soil structure and lead to		C. Based on time of	occurrence	e drou	ight is classified	into 4 types.				
fields having slope of <6% a) A, B, C & D b) Only A & c) Only B d) Only B & D d Choose the correct match for location of research institutions: A. CAZRI i Hyderabad B. ICRAF ii Jodhpur C. ICARDA iii Nairobi D. ICRISAT iv Lebanon a) A-i, B-ii, C-iii, b) A-iv, B-iii, c) A-ii, B-iii, d) A-ii, B-iv, C-D-iv C-i, D-ii C-iv, D-i iii, D-i Two statements are given below: One is labelled as Assertion and the other is labelled as Justification A. Assertion: Deep tillage is not normally recommended in dryland agriculture B. Justification: Deep tillage can disrupt the soil structure and lead to					~	• •	d in			
a) A, B, C & D b) Only A & c) Only B d) Only B & D d Choose the correct match for location of research institutions: A. CAZRI i Hyderabad B. ICRAF iii Jodhpur C. ICARDA iiii Nairobi D. ICRISAT iv Lebanon a) A-i, B-ii, C-iii, b) A-iv, B-iii, c) A-ii, B-iii, d) A-ii, B-iv, C-D-iv C-i, D-ii C-iv, D-i iii, D-i Two statements are given below: One is labelled as Assertion and the other is labelled as Justification A. Assertion: Deep tillage is not normally recommended in dryland agriculture B. Justification: Deep tillage can disrupt the soil structure and lead to		C				J 1				
Choose the correct match for location of research institutions: A. CAZRI i Hyderabad B. ICRAF ii Jodhpur C. ICARDA iii Nairobi D. ICRISAT iv Lebanon a) A-i, B-ii, C-iii, b) A-iv, B-iii, c) A-ii, B-iii, d) A-ii, B-iv, C-C-i, D-iv C-iv, D-i iii, D-i 94 Two statements are given below: One is labelled as Assertion and the other is labelled as Justification A. Assertion: Deep tillage is not normally recommended in dryland agriculture B. Justification: Deep tillage can disrupt the soil structure and lead to				A &	c) Only B	d) Only B & T)	d		
Choose the correct match for location of research institutions: A. CAZRI B. ICRAF C. ICARDA D. ICRISAT iv Lebanon a) A-i, B-ii, C-iii, b) A-iv, B-iii, c) A-ii, B-iii, d) A-ii, B-iv, C-C-i, D-iv Two statements are given below: One is labelled as Assertion and the other is labelled as Justification A. Assertion: Deep tillage is not normally recommended in dryland agriculture B. Justification: Deep tillage can disrupt the soil structure and lead to		, , , ,			,,					
A. CAZRI B. ICRAF ii Jodhpur C. ICARDA D. ICRISAT iv Lebanon a) A-i, B-ii, C-iii, b) A-iv, B-iii, c) A-ii, B-iii, d) A-ii, B-iv, C-to, D-iv C-i, D-ii Two statements are given below: One is labelled as Assertion and the other is labelled as Justification A. Assertion: Deep tillage is not normally recommended in dryland agriculture B. Justification: Deep tillage can disrupt the soil structure and lead to	93	Choose the correct r		locatio	n of research ins	titutions:				
B. ICRAF C. ICARDA iii Nairobi D. ICRISAT iv Lebanon a) A-i, B-ii, C-iii, b) A-iv, B-iii, c) A-ii, B-iii, d) A-ii, B-iv, C-to-iv C-i, D-ii Two statements are given below: One is labelled as Assertion and the other is labelled as Justification A. Assertion: Deep tillage is not normally recommended in dryland agriculture B. Justification: Deep tillage can disrupt the soil structure and lead to	,,,		1.00011 101							
C. ICARDA D. ICRISAT iv Lebanon a) A-i, B-ii, C-iii, b) A-iv, B-iii, c) A-ii, B-iii, d) A-ii, B-iv, C-D-iv C-i, D-ii Two statements are given below: One is labelled as Assertion and the other is labelled as Justification A. Assertion: Deep tillage is not normally recommended in dryland agriculture B. Justification: Deep tillage can disrupt the soil structure and lead to										
D. ICRISAT a) A-i, B-ii, C-iii, b) A-iv, B-iii, c) A-ii, B-iii, d) A-ii, B-iv, C-c D-iv C-i, D-ii C-iv, D-i Two statements are given below: One is labelled as Assertion and the other is labelled as Justification A. Assertion: Deep tillage is not normally recommended in dryland agriculture B. Justification: Deep tillage can disrupt the soil structure and lead to		1								
a) A-i, B-ii, C-iii, b) A-iv, B-iii, c) A-ii, B-iii, d) A-ii, B-iv, C-C-i, D-ii Two statements are given below: One is labelled as Assertion and the other is labelled as Justification A. Assertion: Deep tillage is not normally recommended in dryland agriculture B. Justification: Deep tillage can disrupt the soil structure and lead to										
D-iv C-i, D-ii C-iv, D-i iii, D-i Two statements are given below: One is labelled as Assertion and the other is labelled as Justification A. Assertion: Deep tillage is not normally recommended in dryland agriculture B. Justification: Deep tillage can disrupt the soil structure and lead to										
94 Two statements are given below: One is labelled as Assertion and the other is labelled as Justification A. Assertion: Deep tillage is not normally recommended in dryland agriculture B. Justification: Deep tillage can disrupt the soil structure and lead to			c							
other is labelled as Justification A. Assertion: Deep tillage is not normally recommended in dryland agriculture B. Justification: Deep tillage can disrupt the soil structure and lead to	0.4	D-1V C-1, D-11 C-1V, D-1 111, D-1								
A. Assertion: Deep tillage is not normally recommended in dryland agriculture B. Justification: Deep tillage can disrupt the soil structure and lead to	94									
agriculture B. Justification: Deep tillage can disrupt the soil structure and lead to										
B. Justification: Deep tillage can disrupt the soil structure and lead to										
increased water evaporation in dryland areas										

	Choose the most app	nronriate an	cwer	from the ontions	g given helow:		
	a) Both A & B are				d) A is correct but	b	
	correct but B is not	*		· ·	B is not correct	U	
	the correct	is the con			B is not correct		
	explanation of A			is correct			
	explanation of A	explanation A)II OI				
95	Choose the correct r	natch for cl	imate	and humid mon	ths:		
	A. Arid		i. <2	2 months			
	B. Semiarid-dry		ii. 4	.5-7.0 months			
	C. Semiarid-wet		iii. 2.0-4.5 months				
	D. Humid			7.0 months			
	a) A-iii, B-iv, C-i,	b) A-i.			d) A-i, B-ii, C-iv,		
	D-ii	C-iii, D-iv		C-ii, D-iv	D-iii	c	
96	Which one of the fo				relay cropping with		
	rice?	8	1		, 11 5		
	a) Pea	b) Lathyrı	1S	c) Linseed	d) Sesame	d	
97	Gypsum requiremen						
	a) Berseem	b) Ground		c) Lucerne	d) Redgram	b	
98	Choose the correct r	/			. /		
	A. Tolerant		i W				
	B. Semi tolerant		ii O				
	C. Moderately sens	sitive		ugarbeet			
	D. Sensitive			otato			
	a) A-iii, B-iv, C-ii,	b) A-iv. F			d) A-iii, B-iv, C-i,		
	D-i	C-i, D-ii	, ,,,	C-iv, D-ii	D-ii	С	
99	Two statements are		w: O	·			
	other is labelled as J			110 10 100 0110 0			
	A. Assertion: Acid s			se sulfuric acid w	when drained.		
	B. Justification: Aci						
	upon drainage, relea						
	Choose the most app						
	a) A is correct but	b) Both A					
	B is not correct	are true ar		correct but B	correct but B is		
		is the con		is correct	not the correct	b	
		explanatio			explanation of A		
		A			_		
10	Which of the follow	ing stateme	ents is	s/are true?			
0	A. Due to poor drai				ds to water logging		
	condition which lead						
	B. Sodium adsorption	on ratio indi	cates	the relative prop	ortion of sodium to		
	other anions.			1 1			
	C. The saline soil ca	n be easily	impr	oved with leaching	ng of salts by using		
	of good quality water and by providing good drainage systems. D. Electrical conductivity of saline-alkali soil is always less than 4						
	mhos/cm.						
	a) Only A, B & D	b) Only D)	c) Only A & C	d) Only C & D	c	
10	Choose the correct r	natch for so	oil ch	aracteristics:			
1	A. Saline	i Soils	s exh	ibiting both high	h salt content		
	B Sodic and high sodium levels ii Soils with high levels of soluble salts						

	C Saline-sodic	iii So	oils w	ith normal/low lo	evels of salts	
	7 11		<u>odium</u>			
				aracterized by h	iigh levels of	
	non-sodic a) A-ii, B-iv, C-iii,		_	ole sodium ions c) A-ii, B-i, C-	d) A-iii, B-iv, C-	
	D-i	C-i, D-iii		iii, D-iv	ii, D-i	b
10	What is the scientifi			,	11, 12 1	
2						
	a) <i>Hordeum</i>	b) Horde	um	c) Hordeum	d) <i>Hordeum</i>	b
	distichum	vulgare		irregular	bicolor	В
10	Ginning percentage	in cotton i	s calcu	ılated as:		
3	2)	1 .)			4)	
	a) Weight of seed cotton \times	b) Weight of	f lint ×1	c) Weight of lint ×1	d) Weight of cotton seed	c
	Weight of lint			Weight of seed cot		
10	Which of the follow	_				
4	A. The basic aim of	of topping	and o	desuckering in to	obacco is to avoid	
	lodging. B. Hybrid Napier gr	000 10 0**0 ~	a hatro	voon Monion v Dei	ro	
	C. IIWBR stands for			1 3		
	D. Dough stage is th					
	a) Only C	b) Only A		c) Only B	d) B & C	c
	, ,	Ć		, ,	,	
10	Given below are two		s, one	is labelled as Ass	ertion and the other	
5	is labelled as Justific					
	A. Assertion: The	grains she	ould b	e dried properly	in the sun before	
	storing them.	مرسدها بداهات	atad am	uin aantaina a lat	t of maniatum vyhinh	
	B. Justification: Free has to be reduced be			am comanis a 101	i of moisture which	
	Choose the most app		\sim	from the options	given below:	
	a) Both A & B are			c) Both A & B	d) B is false but A	С
	true but B is not the	but B is t	rue	are true and B	is true	
	correct			is the correct		
	explanation of A			explanation of		
10	XXII: 1 C.1 C.11	· 1		<u>A</u>	, 11 1	
10 6	Which of the follow green manure crop?	ing pulse	crops	is used as pulse,	, a vegetable and a	
U	a) Greengram	b) Blacks	oram	c) Cowpea	d) Pea	c
10	Choose the correct r	,			<i>a)</i> 1 0 <i>a</i>	
7	A. Pretilachlor		i Jute			
	B. 2,4-D	ii Maize				
	C. Atrazine		iii Wheat iv Rice			
	D. Fluchloralin					
	a) A-i, B-ii, C-iii,	b) A-iv,	B-iii,	c) A-iii, B-iv,	d) A-iv, B-iii, C-	d
10	D-iv	C-i, D-ii	1:	C-i, D-ii	ii, D-i	
10 8	Acid soil is generall	y not toun	d in W	nich of the follow	ving soil groups	
	a) Alluvial soil	b) Black	soil	c) Laterite	d) Red soil	b
	,	, -		soil		

10 9	High salt concentration in soil leads to						
	a) Aggregation	b) Defloccula	atio	c) Dispersion	d) Flocculation	1	d
11 0	Which of the following statements is/are true? A. Puddling reduces particle density B. Organic matter reduces particle density C. Ploughing operation reduces particle density D. Central Soil Salinity Research Institute is located at Karnal						
	a) A, B, C & D	b) Only A		c) Only D	d) Only B & D)	d
11 1	Which one of the fo	llowing is g	ener	ally used for corr	ecting soil acidi	ty?	
	a) Lime	b) Gypsun	1	c) Iron pyrites	d) Both (a) and	d (b	a
11 2	Choose the correct rirrigation water: A. <3 B. 3-4 C. 5-10 D. >10	natch for pe	i Ve ii H iii N	sible limit of bor ry high igh Jormal	on content (ppm) in	
	a) A-iii, B-iv, C-ii, D-i	b) A-iv, B C-i, D-ii			d) A-iii, B-iv, O	C-i,	a
11 3	Two statements are given below: One is labelled as Assertion and the other is labelled as Justification A. Assertion: The amount of BOD in the water is a measure of the amount of organic material in the water. B. Justification: Clear water has BOD less than 5 ppm whereas highly polluted water can have BOD value of 17 ppm or more. Choose the most appropriate answer from the options given below:						
	a) Both A & B are true and B is the correct explanation of A		but the		d) Both A & B false		b
11 4	Which tree is used f		on o	f salt affected so:	il?		
-	a) Prosopis	b) Eucalyp	otus	c) Acacia	d) Tamarind		c
11 5	Choose the correct r A. 250-750 μmhos B. 750-2250 μmhos C. 100-250 μmhos D. > 2250 μmhos/α	match for EO/cm s/cm /cm	C and i. Lo ii. M iii. I		of irrigation wat water		-
	a) A-iii, B-iv, C-i, D-ii					C-	c
11 6	Capillary movement		com		1 2 -		Answer option (a,b,c,d)
	a) Stem elongation	b) Featension	Root	c) Leaf orientation	d) None of the		b
	pF refers to						

11								
7	a) logarithm of H	b)	c)	d)	c			
,	ion concentration	/	/	logarithm of salt				
	ion concentration	free flow	soil moisture	concentration				
		water	tension	Concentration				
11	Correct order of irrig			to amount of water				
8	involved during a							
o	requirement, IR fo							
	requirement and E f	-	lanement, MIX	ioi net irrigation				
	a) E > WR > NIR >		a) ID >W/D >	d) WR > IR >	d			
	IR	E >NIR	NIR > E	NIR > E	u			
	IIX	L /NIK	NIK / L	NIK / L				
11	A 1.5 ha vyhaat ana	n field was summ	liad with 6 am	douth of importion				
11 9	A 1.5 ha wheat cro							
9	compute how many				1			
10	a) 3 lakh	b) 4.5 lakh	c) 7.5 lakh	d) 9 lakh	d			
12	Which of the follow	ing is not a com	nponent of the m	ioisture potential in				
0	soil	4.	I .	L 45				
	a) matric potential	b)	c) turgor	d) osmotic	c			
		gravitational	potential	potential				
		potential						
12	SI unit of pressure is							
1	a) Joule	b) Pascal	c) ergs	d)None of these	b			
12	The equilibrium so	il moisture at g	given suction is	in				
2	desorption							
	a) smaller	b) equal	c) greater	d) None of these	c			
12	The movement of ir	rigation water fro	om the soil surfa	ce into and through				
3	the soil is called							
	a) Infiltration	b) Percolation	c) Water	d) Inter flow	С			
	,	,	intake	,				
12	The rate of flow of	fluid through a	unit cross section	n of a porous mass				
4	under a unit hydraul			1				
	a) Hydraulic	b)	c)	d) Pressure	b			
	Coefficient	Permeability	Gravitational	potential				
		coefficient	potential	r				
12	The relation between		1	ent is referred to				
5	a) Crop	b) Hyster	c) Cohes	d) Passive	b			
	coefficient	esis	ion	absorption	~			
12	Given below are two		1011	accorption				
6	Statement I: Diffus		ficit (DPD) of pu	re water is taken as				
	zero.	ion i ressure Del	ion (Di D) oi pu	10 water is taken as				
		sion Pressure Do	eficit (DPD) is als	so always nositive				
	Statement II : Diffusion Pressure Deficit (DPD) is also always positive. In light of the above statements, choose the correct answer from the antions given below							
	options given below	b) Both	a) Statement I	d) Statement I in				
	a) Both Statement I and Statement II	/	c) Statement I	d) Statement I is	a			
			is true but	false but				
	are true	and Statement	Statement II is	Statement II is				
10	G' 1 1	II are false	false	true				
12	Given below are two		.•					
7	Statement I: Osmot	-						
	Statement II: Osmotic potential is also always negative.							

	In light of the above					
	options given below					
	a) Both Statement I	b) Bot	th	c) Statement I	d) Statement I is	d
	and Statement II			is true but	false but	
	are true	and Statemen	nt	Statement II is	Statement II is	
10	<u> </u>	II are false		false	true	
12	Given below are tw			e is labelled as A	Assertion A and the	
8	other is labelled as J			a of one imica	tad and assautity of	
	water applied to the				ted and quantity of	
	B: Justification: An	1			ned at economy in	
	irrigation water appl					
	In light of the above				opriate answer from	
	the options given be			11	•	
	a) Both A and B are	b) Both A an		c) Both A and	d) A is incorrect	c
	correct and B is the	B are corre		B are	but B is correct	
	correct	but B is NO		incorrect		
	explanation of A	the corre				
		explanation of A	01			
12	Percolation of water		re o	ccurs when the	tension is	
9	a) < 0.5 atm.	b) > 3 atm.		c) 1-2 atm.	d) 2-3 atm.	a
		,		,	,	
13	Sprinkler irrigation					
0	a) Sandy soil with		- 1		d) Clay loam soils	b
	high infiltration	soils wit		soils		
	rate	very love infiltration	W			
		rate				
13	A small earth dam		o re	eserve water for	r a short period to	
1	control excessive ru				1	
	a) Coffer dam	b) Retention	on	c) Earth dam	d) Arch dam	b
		dam				
13	The capillary water				1) 10 :	
2	a) 15 atm. And 1/3	b) 31 atm. an	nd	c) 20 atm. And 25 atm.	d) 10 atm. And 13	b
13	atm. An area of 25 ha is i	1/3 atm.	5 0		atm.	
3	stored in root zone i					
	a) 62%	b) 65%		c) 56%	d) 26%	a
13	Match the following		ı	/		-
4		· 				
	i.Advection					
	air through vegetation					
	i.Oasis effect B. Doorenbos and Prutt. i.Clothes line effect C. The flowing of warm air over					
	i.Clothes line effect					
	.Modified Penman					
	viouiiicu i ciiiiiali					
				to or out of any		

a) i-D, ii-B, iii-A, ii-B, iii-B, iv-C iii-B, ii-D, d iv-C iii-B, ii-C, iii-B, iii-A, iv-C iiii-B, iv-C iiii-B, iii-A, iiv-B iiii-B, iv-C iiii-B, iii-A, iv-A iiii-B, iii-B, iii-						T			
Given below are two statements Statement I: Organic matter = Organic carbon x 1.724		150),		-	d		
Statement I: Organic matter = Organic carbon x 1.724 Statement II: Specific gravity of soil = 2.65 kg/m³	13				III-C, IV-A	IV-A			
Statement II: Specific gravity of soil = 2.65 kg/m³ In light of the above statements, choose the correct answer from the options given below a) Statement I is true but Statement I I and Statement II and Statement II I and Statement II are true II are false II are false II are true II are false II are false II are true II are false II are true II are false II are false II are true II are false II are true II are false I				'ចនា	nic carbon x 1.72	24			
In light of the above statements, choose the correct answer from the options given below a) Statement I is b) Statement I or large statement I is true but Statement II is true statement II is true statement II is true statement II is true statement II is and Statement II are false Given below are two statements, one is labelled as Assertion A and the other is labelled as Justification B A: Assertion: Soil moisture content at Field Capacity is about 50% of saturation in medium textured soil but much less in the coarse textured sandy soil B: Justification: It is amount of water retained by initially saturated soil after being subjected to a centrifugal force of 1000 times that of gravity for about half an hour. In light of the above statements, choose the most appropriate answer from the options given below a) Both A and B are but B is NOT incorrect correct and B is the correct explanation of A B are correct but B is NOT incorrect with B are but B is correct but B is NOT incorrect explanation of A Discrete A. 2-7 dSm^-1			- 1						
options given below a) Statement I is false but Statement I is true but statement I is true II is true Statement II is strue Statement II is and Statement I I are false II are false A: Assertion: Soil moisture content at Field Capacity is about 50% of saturation in medium textured soil but much less in the coarse textured sandy soil B: Justification: It is amount of water retained by initially saturated soil after being subjected to a centrifugal force of 1000 times that of gravity for about half an hour. In light of the above statements, choose the most appropriate answer from the options given below a) Both A and B are but B are correct but B is NOT incorrect explanation of A B are correct but B is NOT incorrect explanation of A Match the following Fresh water B		~ • • • • • • • • • • • • • • • • • • •							
options given below a) Statement I is false but Statement I is true but statement I is true II is true Statement II is strue Statement II is and Statement I I are false II are false A: Assertion: Soil moisture content at Field Capacity is about 50% of saturation in medium textured soil but much less in the coarse textured sandy soil B: Justification: It is amount of water retained by initially saturated soil after being subjected to a centrifugal force of 1000 times that of gravity for about half an hour. In light of the above statements, choose the most appropriate answer from the options given below a) Both A and B are but B are correct but B is NOT incorrect explanation of A B are correct but B is NOT incorrect explanation of A Match the following Fresh water B		In light of the above	ve statements.	, c	hoose the correc	et answer from the			
a) Statement I is false but Statement I is true but Statement II and Statement II are true false Given below are two statements, one is labelled as Assertion A and the other is labelled as Justification B A: Assertion: Soil moisture content at Field Capacity is about 50% of saturation in medium textured soil but much less in the coarse textured sandy soil B: Justification: It is amount of water retained by initially saturated soil after being subjected to a centrifugal force of 1000 times that of gravity for about half an hour. In light of the above statements, choose the most appropriate answer from the options given below a) Both A and B are correct but B is NOT the correct explanation of A B are correct but B is NOT the correct explanation of A Match the following 13 Match the following 15 Match the following 16 Match the following 17 Match the following 18 Match the following 19 a) i-A, ii-B, iii-C, b) i-B, ii-A, c) i-B, ii-A, d) i-D, ii-C, iii-B, iv-D iii-C, iv-D ii-C, iii-C, iv-D ii-C, iii-C, iv-D ii-C, iii-C, iv-D ii-C, ii				,					
false but Statement is true but Statement I and Statement II It is true Statement II is and Statement I are false II are false II are false II are false 3 Given below are two statements, one is labelled as Assertion A and the other is labelled as Justification B A: Assertion: Soil moisture content at Field Capacity is about 50% of saturation in medium textured soil but much less in the coarse textured sandy soil B: Justification: It is amount of water retained by initially saturated soil after being subjected to a centrifugal force of 1000 times that of gravity for about half an hour. In light of the above statements, choose the most appropriate answer from the options given below a) Both A and B are correct and B is the correct explanation of A B are correct but B is NOT the correct explanation of A B are but B is NOT the correct explanation of A A 2-7 dSm ⁻¹ Erackish water B < 0.7 dSm ⁻¹ Erackish water B < 0.7 dSm ⁻¹ Erackish water B < 0.7 dSm ⁻¹ Erackish water Erackish water B < 0.7 dSm ⁻¹ Erackish water Erackish water B < 0.7 dSm ⁻¹ Erackish water Erackish water Erackish water B < 0.7 dSm ⁻¹ Erackish water Erackish				I	c) Both	d) Both Statement	d		
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1. Fresh water	13	Match the following	Ţ						
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a) i-A, ii-B, iii-C, b) i-B, ii-A, c) i-B, ii-A, d) i-D, ii-C, iii-B, ii-A with the following Salt excretion		i.Brackish water		В					
a) i-A, ii-B, iii-C, b) i-B, ii-A, c) i-B, ii-A, d) i-D, ii-C, iii-B, b iv-D Match the following Salt excretion Salt dilution Salt exclusion C. Atriplex spp. Osmotic regulation D. Hordeum vulgare a) i-C, ii-B, iii-A, b) i-D, ii-B, c) i-A, ii-C, d) i-B, ii-D, iii-C, iv-D iii-A, iv-C iii-D, iv-B Which indices are used to quantify the effect of climate on soil formation A. Sugar beet C. Atriplex spp. Osmotic regulation D. Hordeum vulgare b iv-A Which indices are used to quantify the effect of climate on soil formation A. Sugar beet C. Atriplex spp. Osmotic regulation A. Sugar beet Osmotic regulation C. Atriplex spp. Osmotic regulation C. Atriplex spp. Osmotic regulation C. Atriplex spp. Osmotic regulation A. Sugar beet Osmotic regulation C. Atriplex spp. Osmotic regulation A. Sugar beet Osmotic regulation C. Atriplex spp. Osmotic regulation C. Atriplex spp. Osmotic regulation A. Sugar beet Osmotic regulation C. Atriplex spp. Osmotic regulation A. Sugar beet Osmotic regulation C. Atriplex spp. Osmotic regulation A. Sugar beet Osmotic regulation C. Atriplex spp. Osmotic regulation A. Sugar beet Osmotic regulation A. Sugar beet Osmotic regulation C. Atriplex spp. Osmotic regulation A. Sugar beet Osmotic		i.Very high saline							
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Which indices are used to quantify the effect of climate on soil formation a) Thornthwaith's b) c) NSQ d) All of these Precipitation				- ,		· ·	~		
9 a) Thornthwaith's b) c) NSQ d) All of these d	13			/ th					
PE Precipitation							d		
*		,	,	l		,			
Gypsum block for moisture determination is mainly based on		<u> </u>							

14 0	a) Electrical resistance principle	b) Electrical capacitance	c) Electrical conductivity	d) Dielectric constant	a
14	Water potential is m	aximum in			
1	a) Root	b) Stem	c) Nodules	d) Leaves	a
14	Pot culture method	was given by			
2	a) Leibig	b) Wilcox	c) Spillman	d) None	d
14	Q = CIA, where C is	mplies			
3	a) Rainfall coefficient	coefficient	c) Constant	d) Erodibility	b
14	DRIS approach was				
4	a) Olsen	b) Leibig	c) Beaufiles	d) Arnon	c
14 5	Which one of the changes in chemical	_			
	a) Increase in pH of acid soil		c) Increase availability of native soil P	d) Reduction in	b
14 6	Which one of the following of Guttation takes place		ect statement rega	arding "The process	
	a) When the root pressure is high and the rate of transpiration is low	b) When the root pressure	c) When the root pressure is equal to the rate of transpiration	d) When the root pressure as well as the rate of transpiration is high	a
14	Thermal conductivit		es with		
7	a) Increase in organic matter	b) Increase in porosity	c) Decrease in soil moisture	d) Decrease in organic matter	b
14	What is the water po				
8	a) 0 bar	b) 0.5 bar	c) 1.0 bar	d) 31 atm.	a
14 9	Alternate wetting as particularly in				
	a) Coarse-textured soil	b) Fine textured soil	c) Medium textured soil	d) All the above	b
15 0	The average annual	rainfall in India	is approximately		
	a) 1090 mm	b) 1190 mm	c) 1290 mm	d) 1390 mm	b