SEAL

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सहाराष्ट्र कृषि सेवा (मुख्य) परोक्षा - 2016 परोक्षा दिनाकं - 19 डिसेव्बर, 2016

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प्रश्नपुस्तिका क्रमांक

प्रश्नपुस्तिका-II

BOOKLET NO.

पेपर क्र.-2

एकूण प्रश्न : 200

एकूण गुण : 400

शेवटचा अंक

वेळ: 2 (दोन) तास कृषि

सूचना

(1) सदर प्रश्नपुस्तिकेत 200 अनिवार्य प्रश्न आहेत. उमेदवारांनी प्रश्नांची उत्तरे लिहिण्यास सुरुवात करण्यापूर्वी या प्रश्नपुस्तिकेत सर्व प्रश्न आहेत किंवा नाहीत याची खात्री करून घ्यावी. असा तसेच अन्य काही दोष आढळल्यास ही प्रश्नपुस्तिका समवेक्षकांकडून लगेच बदलून घ्यावी.

्र केंद्राची संकेताक्षरे

- (2) आपला परीक्षा-क्रमांक ह्या चौकोनांत न विसरता बॉल्प्रेनने लिहावा.
- (3) वर छापलेला प्रश्नपुस्तिका क्रमांक तुमच्या उत्तरपत्रिकेवर विशिष्ट जागी उत्तरपत्रिकेवरील सूचनेप्रमाणे **न विसरता नमूद करावा**.
- (4) या प्रश्नपुस्तिकेतील प्रत्येक प्रश्नाला 4 पर्यायी उत्तरे सुचिवली असून त्यांना 1, 2, 3 आणि 4 असे क्रमांक दिलेले आहेत. त्या चार उत्तरांपैकी सर्वात योग्य उत्तराचा क्रमांक उत्तरपित्रकेवरील सूचनेप्रमाणे तुमच्या उत्तरपित्रकेवर नमूद करावा. अशा प्रकारे उत्तरपित्रकेवर उत्तरक्रमांक नमूद करताना तो संबंधित प्रश्नक्रमांकासमोर छायांकित करून दर्शविला जाईल याची काळजी घ्यावी. ह्याकरिता फक्त काळ्या शाईचे बॉल्प्रेन वापरावे, पेन्सिल वा शाईचे पेन वापरू नये.
- (5) <u>सर्व प्रश्नांना समान गुण आहेत. यास्तव सर्व प्रश्नांची उत्तरे द्यावीत</u>. घाईमुळे चुका होणार नाहीत याची दक्षता घेऊनच शक्य तितक्या वेगाने प्रश्न सोडवावेत. क्रमाने प्रश्न सोडविणे श्रेयस्कर आहे पण एखादा प्रश्न कठीण वाटल्यास त्यावर वेळ न घालविता पुढील प्रश्नाकडे वळावे. अशा प्रकारे शेवटच्या प्रश्नापर्यंत पोहोचल्यानंतर वेळ शिल्लक राहिल्यास कठीण म्हणून वगळलेल्या प्रश्नांकडे परतणे सोईस्कर ठरेल.
- (6) उत्तरपत्रिकेत एकदा नमूद केलेले उत्तर खोडता येणार नाही. नमूद केलेले उत्तर खोडून नव्याने उत्तर दिल्यास ते तपासले जाणार नाही.
- (7) प्रस्तुत परीक्षेच्या उत्तरपत्रिकांचे मूल्यांकन करताना उमेदवाराच्या उत्तरपत्रिकेतील योग्य उत्तरांनाच गुण दिले जातील. तसेच ''उमेदवाराने वस्तुनिष्ठ बहुपर्यायी स्वरूपाच्या प्रश्नांची दिलेल्या चार पर्यायापैकी सर्वात योग्य उत्तरेच उत्तरपत्रिकेत नमूद करावीत. अन्यथा त्यांच्या उत्तरपत्रिकेत सोडविलेल्या प्रत्येक चार चुकीच्या उत्तरांसाठी एका प्रश्नाचे गुण वजा करण्यात येतील''.

ताकीद

ह्या प्रश्नपत्रिकेसाठी आयोगाने विहित केलेली वेळ संपेपर्यंत ही प्रश्नपुस्तिका आयोगाची मालमत्ता असून ती परीक्षाकक्षात उमेदवाराला परीक्षेसाठी वापरण्यास देण्यात येत आहे. ही वेळ संपेपर्यंत सदर प्रश्नपुस्तिकेची प्रत/प्रती, किंवा सदर प्रश्नपुस्तिकेतील काही आशय कोणत्याही स्वरूपात प्रत्यक्ष वा अप्रत्यक्षपणे कोणत्याही व्यक्तीस पुरविणे, तसेच प्रसिद्ध करणे हा गुन्हा असून अशी कृती करणाऱ्या व्यक्तीवर शासनाने जारी केलेल्या "परीक्षांमध्ये होणाऱ्या गैरप्रकारांना प्रतिबंध करण्याबाबतचा अधिनियम-82" यातील तरतुदीनुसार तसेच प्रचलित कायद्याच्या तरतुदीनुसार कारवाई करण्यात येईल व दोषी व्यक्ती कमाल एक वर्षाच्या कारावासाच्या आणि/किंवा रुपये एक हजार रकमेच्या दंडाच्या शिक्षेस पात्र होईल.

तसेच ह्या प्रश्नपत्रिकेसाठी विहित केलेली वेळ संपण्याआधी ही प्रश्नपुस्तिका अनिधकृतपणे बाळगणे हा सुद्धा गुन्हा असून तसे करणारी व्यक्ती आयोगाच्या कर्मचारीवृंदापैकी, तसेच परीक्षेच्या पर्यवेक्षकीयवृंदापैकी असली तरीही अशा व्यक्तीविरूद्ध उक्त अधिनियमानुसार कारवाई करण्यात येईल व दोषी व्यक्ती शिक्षेस पात्र होईल.

पुढील सूचना प्रश्नपुस्तिकच्या अंतिम पृष्ठावर पहा

कच्चा कामासाठी जागा /SPACE FOR ROUGH WORK

	The	concept of link	-		•	•				
	(1)	Morgan			(2)	Wat	son and Crick			
	(3)	Kornberg			(4)	Frar	ıklin			
2.		ongst the follow option.	ing give	en options (ne is	earlies	st commonly us	sed cloni	ng vector. State	
	(1)	SV ₄₀	(2)	Cosmid		(3)	pBR322	(4)	Transposons	
3.	The	example of C ₃	plant is	:						
	(1)	Sugarcane	(2)	Maize		(3)	Barley	(4)	None of them	
4.	In h	ybridization pro	ogramm	e selection	of par	ents i	s done on the b	pasis of:		
	(1)	Heritability			(2)	Gen	etic advance			
	(3)	Combining ab	oility		(4)	All	of the above			
5.		induction of systems of a system of a syst	, translu uspensi	acent leaves	5	luring	; micropropaga	tion cou	ıld be traced by	
	(1) (2) (3) (4)	Water soaked Bud necrosis Milky white s Browning of	, translu uspensi media	on on medi	a				ild be traced by	
5. 6.	(1) (2) (3) (4) Any	Water soaked Bud necrosis Milky white s Browning of	, translu uspensi media	on on medi	a	or tr				
	(1) (2) (3) (4) Any as:	Water soaked Bud necrosis Milky white s Browning of the	, transluuspensi media	on on medi	a teristic	or tr	ait possessed b			
6.	(1) (2) (3) (4) Any as: (1) (3)	Water soaked Bud necrosis Milky white s Browning of the second of the second or the se	, transluuspensi media distinc	on on meditive charact	teristic (2) (4)	or tr Gen Nor	ait possessed b otype ne of them			
6.	(1) (2) (3) (4) Any as: (1) (3)	Water soaked Bud necrosis Milky white s Browning of s measurable or Phenotype Both Phenoty	, transluuspensi media distinc	on on meditive charact	teristic (2) (4)	or tr Gen Nor	ait possessed b otype ne of them			
	(1) (2) (3) (4) Any as: (1) (3) The (1)	Water soaked Bud necrosis Milky white s Browning of r measurable or Phenotype Both Phenoty world's first pi	, translu uspensi media distinc pe and geon pe	on on meditive characters Genotype a hybrid re ICPH - 8	teristic (2) (4) leased	Gen Nor by IC	ait possessed botype the of them CRISAT is: ICPH - 10	by an org	ganism is called	
	(1) (2) (3) (4) Any as: (1) (3) The (1)	Water soaked Bud necrosis Milky white s Browning of r measurable or Phenotype Both Phenoty world's first pi	, translu uspensi media distinc pe and geon pe	on on meditive characters Genotype a hybrid re ICPH - 8	teristic (2) (4) leased	Gen Nor by IC (3)	ait possessed botype the of them CRISAT is: ICPH - 10	by an org	ganism is called	

9.	Mar	shy plants are al	so call	ed as :					
	(1)	Helophytes	(2)	Mesophyt	es	(3)	Xerophytes	(4)	Hydrophytes
10.	The	acid rain is the o	combir	nation of :					
	(1)	$\rm H_2SO_4$ and $\rm HN$	NO_3		(2)	HCl	and H ₂ SO ₄		
	(3)	HNO_3 and HC	1		(4)	Non	e of the above		
11.	For	induction of call	us, the	growth reg	ulato	used	is:	_	
	(1)	Indole acetic a	cid						
	(2)	Naphthalene a	cetic a	icid			,		
	(3)	2-4-Dichloro-p	henox	yacetic acid					
	(4)	None of them							
12.	The	period between	mitoti	c cycles is te	rmed	as:.			
	(1)	Interphase	(2)	Prophase		(3)	Metaphase	(4)	Telophase
13.	NP	4, 6, 12 are exam	ples of	f pure line v	arieti	es dev	reloped in the fol	lowing	g crop :
	(1)	Rice	(2)	Oat		(3)	Bajra	(4)	Wheat
14.		somaclonal varia	nt of tl	ne <i>Brassica ju</i>	ncea v	ariety	Varun has been 1	elease	d for commercial
	(1)	Ono	(2)	Pindar		(3)	Bio-13	(4)	Pusa Jai Kisan
<u> </u>	— The	calculated force	per ur	it area requ	ired t	o stop	osmosis is calle	d :	
	(1)	Osmotic poten	itial		(2)	Tur	gor pressure		
	(3)	Osmotic press	ure ·		(4)	Wal	l pressure		
 16.	Visi	ble spectrum of	——— light fo	or photosynt	hesis	lies b	etween the wave	 Iength	:
	(1)	400 - 600 nm	(2)	400 - 700	nm	(3)	400 - 500 nm	(4)	410 - 550 nm
<u> </u>	The	example of micr	ronutri	ent required	l by tl	he pla	nt is :		
	(1)	Mo and Zn	(2)	Cu and Fe	e	(3)	B and Mn	(4)	All of them

18.	The	Nuclear Polyhee	drosis v	virus acts as	s bio p	esticio	de for the prot	ection of	crop:
	(1)	Rice	(2)	Tomato		(3)	Cotton	(4)	Tobacco
19.	seed		t colou	r, pod coloi	ır, poc	l shap	e, cotyledon c		rs of pea namely agth of stem and
	. (1)	Pod weight			(2)	Nur	nber of pods		
	(3)	Position of flor	wers		(4)	Pod	length		
20.	The	intensity of seed	l sampl	ing should	be ma	intair	ed in accordar	nce to the	rules described
	(1)	ISTA	(2)	1SST		(3)	NSC	(4)	UPOV
21.	An	organelle presen	t in ani	mal cells b	ut rare	ely pre	esent in plants	:	
	(1)	Nucleolus			(2)	Cen	triole		
	(3)	Vacuole			(4)	Mito	ochondrion		
22.	Trar	nsgenic tomato p	 lant co	onfers the re	esistan	ice ag	ainst the pest		
	(1)	Manduca sexta			(2)	Heli	othis arniigera		
	(3)	Bruchus bettle			(4)	Spoo	loptera litura		
 23.	The	loosely arranged	d mass	of parench	yma ii	n hyd	athodes is kno	wn as :	
	(1)	Stomata	(2)	Zylum		(3)	Epithem	(4)	None of them
24.	In ci	itrus, virus free j	—— plants o	can be obtai	ined b	y the	following tech	 nique :	
	(1)	Seed culture	(2)	Cell cultu	ıre	(3)	Nucellus cul	ture (4)	Bud culture
 25.	Gold	den rice helps to	overco	me deficier	ncy of	:			
	(1)	Vitamin - E	(2)	Vitamin -	D	(3)	Vitamin - A	(4)	Vitamin - K
 26.	The	components tha	at make	up the str	uctura	l aspe	ects of an ecosy	stem inc	·lude :
	(1)	Inorganic com	ipound	s	(2)	Org	anic compoun	ds	
	(3)	Climatic regin	nes		(4)	All	of them		

27.	Cho	ose the example	e of day	neutral plant :				
	(1)	Tomato	(2)	Cucumber	(3)	Cotton	(4)	All of them
28.	The	longer arm of c	hromos	ome is called as	:		-	
	(1)	p arm	(2)	q arm	(3)	r arm	(4)	s arm
 29.		plant <i>Elaeocarp</i> alkaloid :	us spha	ericus basically	spread	in Himalyan ı	mountaii	n range contain
	(1)	Rudrakine	(2)	Scopaletin	(3)	Bergnin	(4)	Artemetin
30.		ongst the statem errect statement	~	ven below one i	s incor	rect about phot	orespira	tion. Select that
	(1)	It involves pe	roxisom	es, vacuoles, cyt	toplasn	n.		
	(2)	Hydrogen per	oxide is	s formed.		•		
	(3)	NADH ₂ is oxi	dised to	NAD+.				
	(4)	It is not essen	tial for s	survival of organ	nism.			
 31.	Mer	ndel carried out	experir	nents on :				
	(1)	Pea	(2)	Hawk weed	(3)	Honey Bee	(4)	All of them
 32.	Invo		oracts i	n flower is not	observ	ed in one of th	he follow	ving mentioned
	(1)	Sunflower	(2)	Marigold	(3)	Cosmos	(4)	Strawberry
33.		-		of selected plan e selection inten			number	of plants in the
	(1)	qn×100	(2)	$\frac{n}{q} \times 100$	(3)	$\frac{q}{n} \times 100$	(4)	$(q+n) \times 100$
34.		e of the statemer ement.	nt given	below about syn	nthetic	variety is incor	rect. Sel	ect the incorrect
	(1)	Synthetic vari	iety can	be grown 4 - 5	years v	without reduction	on in yie	eld potential.
	(2)	•	-	stitute polymor	•		•	-
	(3)	•	-	aintained by cro	•			
	(4)			heterogenous p	-			
	(-)	.,		Q P	I			

35.	The	self pollinated specie	s ao not sno	ow mbr	eeamg	g depression be	cause :	
	(1)	They have heterozy	gous balanc	ce.				
	(2)	They have homozy	gous balanc	e.				
	(3)	They have excessive	e recessivity.					
	(4)	They have high leve	el of parenta	al purit	у.			
36.		method of developin ord of parent - offsprii	-	•			ılation is	s handled and a
	(1)	Bulk method		(2)	Back	cross method		
	(3)	Mass selection meth	nod	(4)	Pedi	gree method		
37.	Arti	ficial ripening of band	ana is induc	ed by :	_			_
	(1)	Cytokinin (2)) NAA		(3)	Ethylene	. (4)	Auxin
38.	_	plants, the conversion			-	ites involves t	hree org	ganelles namely
	(1)	Oleosome		(2)	Pero	xisome		
	(3)	Vacuole		(4)	End	oplasmic reticu	ılum	
			osio and du	ring w	L:_1		oma da	condensation is
39.		the end of Karyokine erved?	esis anu uu	ing w	nicn p	mase chromos	onie de	ondenoundi 10
39.		-		Ü	(3)	Anaphase	(4)	Telophase
39. 	(1) A c	erved?) Metapha	ase	(3)	Anaphase	(4)	Telophase
	(1) A c	erved ? Prophase (2) lose correspondence) Metapha	ase	(3) Juence	Anaphase	(4)	Telophase ————————————————————————————————————
	A cipath (1)	erved ? Prophase (2) lose correspondence nway is lacking in :) Metapha	ase ————————————————————————————————————	(3) Juence Prok	Anaphase e and enzyme	(4)	Telophase ————————————————————————————————————
	obse (1) A ci path (1) (3)	erved ? Prophase (2) lose correspondence way is lacking in : Prokaryotes) Metapha —- between g	(2) (4)	(3) quence Prok Non	Anaphase e and enzyme aryotes and En	(4) sequenc ukaryote	Telophase ————————————————————————————————————
40.	obse (1) A ci path (1) (3)	Prophase (2) Prophase (2) lose correspondence nway is lacking in : Prokaryotes Eukaryotes	Metapha between g	ene sec (2) (4) nthesis	(3) quence Prok Non	Anaphase e and enzyme aryotes and En	(4) sequenc ukaryote	Telophase ————————————————————————————————————
40.	(1) A c path (1) (3) Wh (1)	Prophase (2) lose correspondence way is lacking in: Prokaryotes Eukaryotes	Metapha between g a chitin syr Diflubez	ene sec (2) (4) nthesis	(3) Prok Non inhibit (3)	Anaphase e and enzyme caryotes and En e of these for insecticide?	(4) sequend ukaryote	Telophase ce in metabolic
41.	(1) A c path (1) (3) Wh (1)	Prophase (2) lose correspondence way is lacking in: Prokaryotes Eukaryotes ich of the following is Imidacloprid (2)	between good a chitin syr	ene sec (2) (4) nthesis	(3) Prok Non inhibit (3)	Anaphase e and enzyme caryotes and En e of these for insecticide?	(4) sequence ukaryote	Telophase ce in metabolic

The efforts to increase population of natural enemies either by propagation and release by environmental manipulation is known as:									
(1)	Conservation (2)	lmportation	(3)	Augmentation	(4)	Introduction			
Whi	ich of the following insec	t-pests is the int	ternal	feeder of stored g	rains	?			
(1)	Sitotroga Cerealella Oliv	·. (2)	Trog	oderma granarium	Eve1	rts			
(3)	Cadra Cautella W.	(4)	Trib	olium Castaneum I	Herbs	t.			
						cide application			
(1)	Saturation	(2)	Resi	ırgence					
(3)	Resistance	(4)	Seco	ondary Pest Outb	reak				
Whi	ich of the following is use	ed to attract me	lon fr	uit fly ?					
(1)	Methyl engenol	. (2)	Cue	lure					
(3)	Trimedlure	. (4)	Nor	ne of the above					
Dich	nlorovos comes under	group	of ir	secticide.					
(1)	Organo - Chlorine	(2)	Nec	Nicotinoid					
(3)	Carbamate	(4)	Org	ano Phosphate					
Whi	ich of the following insec	ticides belong t	o orga	anophosphates ?	_				
(1)	Malathion	(2)	Para	athion					
(3)	Dichlorovos	(4)	All	of the above					
		nale technique v	vas su	ccessfully demon	s tr ate	ed against which			
(1)	Cochliomyia Hominivor	rax (2)	Cero	ititis Capitata					
(3)	Bactocera Cucmbitae	(4)	Mel	olontha Vulgaris					
In F	Honey bee mouth parts, w	which parts are	modii	ried to form a lap	ping (tongue ?			
(1)	Labrum and Labium	(2)	Maı	ndibles and Labiu	m				
(3)	Labium and Maxilla	(4)	Max	killa and Labrum					
	by 6 (1) Whit (1) (3) An ofter (1) (3) Whit (1) (3) Un Sinse (1) (3) In Sinse (1) (1) (3)	by environmental manipulate (1) Conservation (2) Which of the following insect (1) Sitotroga Cerealella Olia (3) Cadra Cautella W. An abnormal increase in perioten far exceeding the econd (1) Saturation (3) Resistance Which of the following is used (1) Methyl engenol (3) Trimedlure Dichlorovos comes under (1) Organo - Chlorine (3) Carbamate Which of the following insect (1) Malathion (3) Dichlorovos In Switzerland, the sterile manipulate (1) Cochliomyia Hominivor (3) Bactocera Cucmbitae In Honey bee mouth parts, we can be a supported by the following insect (1) Labrum and Labium	by environmental manipulation is known a (1) Conservation (2) Importation Which of the following insect-pests is the in (1) Sitotroga Cerealella Oliv. (2) (3) Cadra Cautella W. (4) An abnormal increase in pest population often far exceeding the economic injury level (1) Saturation (2) (3) Resistance (4) Which of the following is used to attract me (1) Methyl engenol (2) (3) Trimedlure (4) Dichlorovos comes under group (1) Organo - Chlorine (2) (3) Carbamate (4) Which of the following insecticides belong to the following insecticides belong	the environmental manipulation is known as	by environmental manipulation is known as	ty environmental manipulation is known as			

A		9 RC	8
51.	Whi	h of the following statements is correct?	
	(1)	The insecticide does not produce any mutation in insects	
	(2)	The insect resistance to insecticides is a preadaptive phenomenon	
	(3)	In insect populations resistant and susceptible strains are already present	
	(4)	All of the above	
52.		estic Quarantine Act to prevent spread of disease and pest within state was passerst time in India during 1919 under name	– ed
	(1)	National Food Safety and Standard Act	
	(2)	Madras Agril. Pest and Disease Act in 1919	
	(3)	Plant Quarantine Act	
	(4)	East Punjab Agricultural Pests, Diseases and Noxious weeds Act.	
53.	Dest	uctive Insect and Pest Act was enforced during year	
	(1)	1912 (2) 1914 (3) 1918 (4) 1930	
54 .		me - inhibition method is widely adopted for detecting insecticide residue in which following insecticides:	 ch
	(1)	Chlorinated Hydrocarbons and Arsenic	
	(2)	Organophosphates and Carbamates	
	(3)	Nicotine and Pyrethrum	
	(4)	None of them	
<u> </u>	Whi	h of the following insect-pests feeds on developing grains of Sorghum?	_
	(1)	Atherigona soccata (Rond.) (2) Chilo partellus (Swinhoe)	
	(3)	Contarinia sorglicola (Coq.) (4) Marasmia trapezalis (Guen.)	
56.	In v	nich of the following insect, leg is involved in silk production:	_
	(1)	Embiid (2) Ant lion (3) Silk Moth (4) All of them	
<u></u>	Mar	dibles are wanting (absent) in type of mouth part in Housefly.	_

(2) Sucking type

(4) Sponging type

Chewing and biting

(3) Chewing and lapping

(1)

58.	Which of the following term is used to describe the state of an insect when it shows no sign of life and metabolic activities are brought reversibly to a standstill:										
	(1)	Cryptobiosis	(2)	Cryptonephry	_	Diapause	(4)	Hybernation			
59.	Gra	m pod borer <i>, He</i>	licover	pa armigera is		pest.					
	(1)	Polyphagous	(2)	Oligophagous	(3)	Monophagous	(4)	None of above			
60.		•	y inco	rporated in the p		foreign genetic i					
	(1)	Resistant	(2)	Susceptible	(3)	Transgenic	(4)	None of above			
61.		r heat treatment following scienti		eat seed for the co	ontrol	of loose smut was	s deve	eloped by one of			
	(1)	K.C. Mehta	(2)	J.C. Luthra	(3)	E.J. Butler	(4)	J.F. Dastur			
62.		V -		(phanerogams) lis on mango tree.	ive se	miparasitically or	ı sten	n of other living			
	(1)	Dodder		(2)	(Lor	anthus) Dendropti	lıoae				
	(3)	Broom rapes		(4)	Wit	chweed					
63.	Sele	ct the name of p	athoge	n/s causing root	rot of	f cotton :	-				
	(1)	Rhizoctonia bat	aticola	(2)	Rhi	zoctonia solani					
	(3)	(1) and (2)		(4)	Scle	rotium rolfsii					
64.	Wh	at is the mode of	action	of "green chemi	cals"	in plant disease n	nanag	ement ?			
	(1)	Systemic		(2)	Cor	ntact					
	(3)	Antisporulent		(4)	The	host defense ind	ucing				
						<u> </u>					

65.	Mat	ch the	follo	wing	;							
			A					В				
	(a)	Agr	obacte	erium		(i)	Gra	m+ve, None or Polar flagella				
	(b)	Clav	vibact	er		(ii)	Gram+ve, non flagellate .					
	(c)	Stre	ptomy	yces		(iii)	Grai	m-ve, non flagellate				
	(d)	Xyll	ela			(iv)	Gran	m-ve Peritrichous flagella				
		(a)	(b)	(c)	(d)							
	(1)	(iv)	(i)	(ii)	(iii)							
	(2)	(i)	(ii)	(iii)	(iv)		•					
	(3)	(ii)	(iii)	(iv)	(i)							
	(4)	(iii)	(iv)	(i)	(ii)							
66.	Sele	ct the	name	of the	e pathoger	respoi	nsible	for Bacterial blight of paddy.				
	(1)	Xan	thamo	nas or	yzicola	_	(2)	Xanthamonas oryzae				
	(3)	Xan	thamo	nas co	mpestris		(4)	Xanthamonas axonopodis				
 67.	Wil	t of pi	igeonp	pea is	caused by			·				
	(1)	Fusa	ırium	Oxysp	orum f.sp.	ciceri						
	(2)	Fusa	ırium	Oxysp	orum f.sp.	Udam						
	(3)	Fusa	ırium	Oxysp	orum f.sp.	Vasinfe	ctum					
	(4)	Fusa	ıriunı	Oxysp	oruni f.sp.	lycoper	sesi					
68.	A p	lant p	athog	genic	fungus th	at requ	ires l	iving host cell for its survival is called as				
	(1)	Biot	roph				(2)	Necrotroph				
	(3)	Obl	igate j	parasi	te		(4)	Biotroph and Obligate parasite				
69.		-		-	of plant pa	ithogen	. Wh	ich are transferred to plant and cause disease				
	(1)	Ino	culum	poter	ntial		(2)	Primary infection				
•	(3)	"lnoo	culum	l			(4)	Secondary infection				
		_										

70. Which of the following pair is mismatched?

Α

R

- (1) E.C. Stakman Hyper sensitive reaction
- (2) Muller and Borger Phytoalexins
- (3) M.J. Berkley Nematology
- (4) W.M. Stanley Crystalisation of plant virus protein
- 71. Choose the option/s which are the abiotic factors responsible for Black heart disease of potato:
 - (1) Insufficient availability of oxygen
 - (2) High temperature
 - (3) Excess of Nitrogen
 - (4) (1) and (2)
- 72. From the following facts which is not true in relation to Bordeaux mixture.
 - (1) Investigated by Millardet
 - (2) Used against powdery mildew of grape
 - (3) Mixture of copper sulphate and hyderated lime
 - (4) Cupric hydroxide is toxic principle
- 73. Bawden and Pirie in 1936 proved one of the following:
 - (1) TMV nucleic acid free from protein coat can cause infection
 - (2) TMV was nucleoproteinous in nature
 - (3) TMV was crystallized
 - (4) TMV was seen with electron microscope
- 74. In India domestic plant quarantine measures are enforced against.
 - (1) Bunchy top and mosaic of banana and wart of potato
 - (2) Paddy Blast and Crown gall of apple
 - (3) Late and early blight of potato
 - (4) Leaf rust of coffee and Golden nematode of potato

75.	Whi	ich of the following pair is correct	?	
	(1)	Exclusion - Isolation in time and	l space	
	(2)	Avoidence - Chemical seed treat	tment	
	(3)	Eradication - Plant quarntine		
	(4)	Protection - Spraying of Chemic	als	
76.	Stru	ctures formed in Basidiomycota a	re :	
	(1)	Dolipere septum and clamp con	nectio	ns
	(2)	Croziers and ascogenous hypha	e	
	(3)	Perithecia and Cleistothecia		
	(4)	Plasmodium and oogonium		
77.	Fun	gus sphacelotheca sorghi causes.	_	
	(1)	Loose smut of sorghum	(2)	Head smut of sorghum
	(3)	Grain smut of sorghum	(4)	Long smut of sorghum
78.		ich fungicides effectively control p	owder	y mildew disease in plants ?
	(1)	Copper oxychloride	(2)	Sulphur
	(3)	Dinocap	(4)	(2) and (3)
— 79.	Whi	ich of the fungal pathogen is respo	nsible	for Damping off of vegetable seedlings?
	(1)	Oidium spp.	(2)	Pythium spp.
	(3)	Plasmopara spp.	(4)	Peronospara spp.
80.	Cho	oose the correct name of disease an	d path	nogen related to great Bengal famine in India.
	(1)	Ergot rye - Claviceps spp.	(2)	Brown spot of rice - Drechslera oryzae
	(3)	Blast of rice - Pyricularia oryzae	(4)	Southern corn leaf blight - Bipolaris maydis
§1.	Whi	ich of the following is non-climact	eric fr	uit ?
	(1)	Sapota (2) Mango		(3) Sweet Orange (4) Banana
	_			

82.	Blac	k neck in ketchu	ips is c	aused due to	pres	ence (of:		
	(1)	Acetic acid			(2)	Enz	ymes		
	(3)	lron			(4)	Mic	roorganisms		
83.	Syru	ıp should conta	in	per c	ent a	acidity	 У.		
	(1)	0.5 - 0.6	(2)	0.75 - 1.0		(3)	1.0 - 1.25	(4)	1.3 - 1.5
84.	_	ota takes about _ ety and climate.		months	from	anth	esis to maturity o	of fruit	s depending on
	(1)	3½ - 4½	(2)	4½ - 5½		(3)	7½ - 10½	(4)	11½ - 12½
85.	Laks	shaganga is a hy	brid o	f which crop	?				
	(1)	Arecanut	(2)	Coconut		(3)	Cashew nut	(4)	None of these
86.	′Me	taxenia' observe	d in wl	hich of follow	ing	crops	;		
	(1)	Root crops	(2)	Tuber crops	s	(3)	Cucurbits	(4)	Bulb crops
 87.	Alco	ohol test in jelly	prepara	ation is done	to d	eterm	ine the content o	 f:	
	(1)	Alcohol	(2)	Pectin		(3)	Vitamins	(4)	Enzymes
88.		reeding of man ch method of pi			печ	v vari	eties, the hybrid	s are f	irst raised from
	(1)	Soft wood gra			(2)	Sim	ple layering		
	(3)	Seed	-		(4)	Bud	ding		
 89.	Rose	e variety 'Abhis	arika'i	s the mutant	of _		variety.		•
	(1)	Gladiator	(2)	Kiss of fire		(3)	Raktagandha	(4)	Dr. B.P. Pal
<u> </u>	Kota	 apak and kalipa	ık are p	orepared fron	n		fruits.		
	(1)	Arecanut	(2)	Coconut		(3)	Cashew nut	(4)	None of these
91.		sitchen garden p		~	like	drum	nstick, curry leaf	and bi	ilimbi should be
	(1)	Centre			(2)	Any	place	•	
	(3)	One side			(4)	Cen	itre and middle p	art	

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92.	Cent	tral Potato Resear	rch In	stitute (CPRI) is l	ocate	d at		
	(1)	Agra	(2)	Varanashi	(3)	Shimla	(4)	New Delhi
93.	Clou	ıdy or foggy jellic	es are	due to	_ •			
	(1)	Over - cooking	(2)	Over - cooling	(3)	Faulty pouring	(4)	All of these
94.	Pinc	hing is an impo	rtant	operation in the s	ucce	ssful production	of qu	ality flowers of
	(1)	Tuberose	(2)	Anthurium	(3)	Carnation	(4)	Marigold
95.	Phal	aenopsis orchids	are a	lso called as	_	_ orchids.		
	(1)	Scorpion	(2)	Moth	(3)	Dancing girl	(4)	None of these
96.	Suck	ers emerging fro	om the	e fruit stalk above	the	soil surface in pi	neapp	ole are called as
	(1)	Slips	(2)	Ground suckers	(3)	Crown suckers	(4)	Sword suckers
 -97.	_	culture and Proc		l Food Products E	xpor	t Development A	utho	rity (APEDA) is
	(1)	Mumbai	(2)	New Delhi	(3)	Kolkata	(4)	Chennai
 98.	Brin	e concentration fo	or car	nning of vegetable	s is _	per ce	nt.	
	(1)	1 - 3	(2)	3 - 5	(3)	5 - 6	(4)	6 - 8
99.	Exce	ellent quality of g	guava	fruits are obtained	d from	m flov	werin	g.
	(1)	Hasta bahar		(2)	Mri	g bahar		
	(3)	Ambia bahar		(4)	Botl	h Mrig and Hasta	baha	r
100.	In n	narmalade about		shredded p	eels s	should be added o	during	g cooking.

101.	Whi	ch plant growth	regula	tor is used for de	egreen	ing in fruits?		•
	(1)	Gibberellins	(2)	Cytokinins	(3)	Abscisic acid	(4)	Ethylene
102.	Whi	ch of the followi	ng is th	ne variety of mul	tiplier	onion ?		
	(1)	Agrifound Red	[(2)	Agr	ifound Dark Red	d	
	(3)	Agrifound Ligl	nt Red	(4)	Agr	ifound Rose		
103.	Pick	ling is the result	of fer	mentation by		acid forming	bacter	ia.
	(1)	Lactic acid	(2)	Acetic acid	(3)	Saccharomyce	es (4)	None of these
104.	Leaf	curl disease of	Chilli i	s transmitted by		·		
	(1)	Thrips	(2)	Aphids	(3)	Whiteflies	(4)	None of these
105.	In w		owing	fruit crop seco	ndary	growth in sten	n as w	ell as in root is
	(1)	Mango	(2)	Cashew nut	(3)	Coconut	(4)	None of these
106.	Higl	aly phylloxera ar	nd droi	ught resistant ro	otstock	used in grape i	s:	
	(1)	Drg Ridge		(2)	St. 0	George		
	(3)	Salt Creek		(4)	Solo	onis X Othello		
107.	Whi	ch variety of ma	ndarin	is commercially	grow	n in North - eas	tern sta	tes ?
	(1)	Nagpur	(2)	Coorg	(3)	Khasi	(4)	Kinnow
108.	Whi	ch flower crop is	s also c	alled as Transva	al Dai	sy ?		
	(1)	Orchid	(2)	Anthurium	(3)	Gerbera	(4)	Carnation
109.		ich of the follow em?	ving sto	orage structure	is base	ed on principle	of eva	porative cooling
	(1)	Refrigerator		(2)	Zer	o energy cool ch	amber	
	(3)	Cold storage		(4)	CA	storage		

110.			•	tivars of ber is lat				
	(1)	Gola 	(2) ———	Umran	(3) ——–	Kaithali —————	(4)	Mundia
111.	_	opene is respon perature.	nsible	for red colour is	n tom	ato and develop	best	at
	(1)	30 to 35°C	(2)	Above 40°C	(3)	Below 10°C	(4)	21 to 24°C
 112.	Pusa	a Rituraj is a bu	shy and	d prolific bearer v	— /ariety	of	_	
	(1)	Garden pea	(2)	Cowpea	(3)	Indian bean	(4)	French bean
 113.	Whi	ch of the follow	ing is t	ropical humid reg	zion fr	ruit crop ?		
	(1)	Banana	(2)	Grape	(3)	Pomegranate	(4)	Acid Lime
 114.	Blac	k tip is a physio	logical	disorder of :	•		•	
	(1)	Grape	(2)	Mango	(3)	Fig	(4)	Guava
 115.		renting flower of	_	_	t set t	wo sprays of		at 30 and 45
	(1)	Cycocal		(2)	Mal	eic hydrazide		
	(3)	NAA		(4)	Abs	cisic acid		
116	Defi	ciency of nitrog	en in c	auliflower cause				
110.					4-5		(4)	Blindness
110.	(1)	Browning	(2)	Whiptail	(3)	Buttoning	(4)	billianess
				Whiptail effect			(4) ——	
				effect	roots			Local
 117. 	In N (1) In g	Mango to get dw Olour	varfing (2) dippin	effect Bappakai g for 10 seconds b	(3)	stock is used.	(4)	Local

100	A:1 -1::	H C		. حادث جادید می		
125.	Agril-clinics serve	me rarming	continuity of	у мицен з	services :	•

- (a) Advisory services
- (b) Technology assessment and refinement
- (c) Information services
- (1) (a) only
- (2) (a) and (c)
- (3) (b) and (c)
- (4)
 - (a), (b) and (c)

124. Programme planning is _____ process.

- (1) Educational process
- (2) Co-ordinating process
- (3) Evaluating process
- (4) All of the above

125. Which of the following degree of evaluation is not informal type?

- (1) Casual every day
- (2) Self Checking

(3) Do it yourself

(4) Extension Studies

126.	The	most commonly	used :	method in m	arke	t Surv	eys and opinion	polls i	.s
	(1)	Area sampling			(2)	Que	ta sampling		
	(3)	Cluster sampli	ng		(4)	Syst	ematic sampling		
127.		approach starts at begin with cha							
	(1)	Extension appr	roach						
	(2)	Co-operative se	elf-helj	p approach					
	(3)	Training appro	ach						
	(4)	Integrated Dev	elopm	ent Approa	ch				
128.	The	informal social p	oressu	re acts more	as a	mean	s of social contro	ol in ru	ral areas due to
	(1)	Personal and l	nforma	al contacts					
	(2)	Small size of la	nd hol	ding					
	(3)	Heterogeneity	of rura	l communiti	ies				
	(4)	All (1), (2) and	(3)						
129.	Nev	er do anything t	hat yo	u get someo:	ne to	do fo	r you is a princi	ple of .	·
	(1)	Participation			(2)	Lead	dership		
	(3)	Cooperation			(4)	Cul	tural Change		
130.		process of deternalled as	-	the extent t	o wh	ich or	ne has been able	to atta	in the objectives
	(1)	Criticism	(2)	Evaluation	า	(3)	Participation	(4)	None of these
131.	The	normal level of	IQ for	a child is _		·			
	(1)	110 - 120	(2)	90 - 110		(3)	120 - 140	(4)	80 - 90
		व्यामारी जामा /९२/	1 CE E/		WO!			-	

132.		arning situation promoting learn			nviror	ıment	in which followi	ng elei	nents necessary
	(1)	Instructor and	l learne	r	(2)	Subj	ect matter and T	eachin'	g material
	(3)	Physical facili	ties		(4)	All c	of the above		
133.		educatio	on com	bines both	adult	educa	tion and inform	al edu	cation.
	(1)	Technical	(2)	Health		(3)	Extension	(4)	Physical
134.	In E	xtension system	the pr				ocess is		
	(a)	An education	al proce	ess					
	(b)	A coordinatin	g proce	ess					
	(c)	An evaluating	proces	s					
	Whi	ch of the statem	ients gi	ven above i	is/are	correc	et?		
	(1)	(a) only	(2)	(b) only		(3)	(c) only	(4)	(a), (b) and (c)
135.		should	be in w	ritten form	and s	shall ir	ndicate who shal	ll do w	hat job.
	(1)	Calendar of o	peratio	n	(2)	Plan	of Work		
	(3)	Project			(4)	Plan			
136.		is a col			nore i	ndivid	uals in reciproc	al com	munication and
	(1)	Category	(2)	Aggregat	ion	(3)	Social group		Mob
137.		is the c							adjusting with
	(1)	Intelligence	(2)	Personali	ty	(3)	Attitude	(4)	Culture
	.					-		_	

100.		ich attribute of in antage		ion may no	er its adoption provided it has more relative				
	(1)	Observability	(2)	Trialabili	ty	(3)	Compatibility	(4)	Complexity
 139.		is one of livided into smal					cal leaders, whe	rein, th	ne audience may
	(1)	Buzz groups	(2)	Panel		(3)	Forum	(4)	Symposium
140.		is the sci	ence c	of rural soc	iety.				
	(1)	Groups			(2)	Psyc	chology		
	(3 [°])	Religion			(4)	Rura	al sociology		
141	The	Communication		el "Sender	→ En	coder	→ Channel → I	Decode	er – Receiver" is
1#1.	give	n by	- *						
141.	give (1)	Shannon-Weav		del	(2)	Berle	o's Model		
141.	_	•	er Mo		` ,		o's Model gan's Model		
	(1) (3) Acce	Shannon-Weav	er Mo	Model	(4)	Leag	gan's Model	arried	out in harmony
	(1) (3) Acce	Shannon-Weav Westley and M	cclean ole of	Model	(4)	Leag	gan's Model	arried	out in harmony
	(1) (3) Accountil	Shannon-Weav Westley and M ording to princip the cultural pat	cclean ole of	Model	(4) , exter	Leagusion v	gan's Model	arried	out in harmony
142.	(1) (3) Account (1) (3)	Shannon-Weav Westley and M ording to princip the cultural pat Cultural differe	er Mo	Model f the peopl	(4) , extere. (2) (4)	Leag nsion Cult Inter	gan's Model work must be control change rest and needs	arried	out in harmony
142.	(1) (3) Account (1) (3)	Shannon-Weav Westley and M ording to princip the cultural pat Cultural difference Gross roots	er Mo	Model The people	(4) , extere. (2) (4)	Leag nsion Cult Inter	gan's Model work must be control change rest and needs	arried	out in harmony
142.	(1) (3) Account (1) (3) Exte	Shannon-Weave Westley and Mording to princip the cultural pate and Cultural differences roots Ension Education Rural people as	er Mo	Model The people Sophy is ba	(4) , extere. (2) (4)	Leag nsion Cult Inter	gan's Model work must be control change rest and needs		out in harmony
142.	(1) (3) Account (1) (3) External (a)	Shannon-Weave Westley and Mording to principate the cultural pate Cultural differences roots ension Education Rural people at Rural people at the cultural peop	er Mo cclean ole of tern of ence Philos re inte	Model The people Sophy is bathligent interested	(4) , extere. (2) (4) sed on	Leagension Cult	gan's Model work must be contained thange rest and needs	<u>-</u>	,
142.	(1) (3) Account (1) (3) External (a) (b) (c)	Shannon-Weave Westley and Mording to principate the cultural pate Cultural differences roots ension Education Rural people at Rural people at the cultural peop	er Mo cclean ole of tern of ence Philos re inte	Model The people of the peopl	(4) , extere. (2) (4) sed on	Leagension Cult Interdiction the hairing inform	gan's Model work must be control change rest and needs ypothesis that: new information	<u>-</u>	,

144.		higher level o absorb the int						require	d to understand
	(1)	Poster		Model		(3)	Diagram	(4)	Specimen
145.	goal		cial unit	or human	group	ing d	eliberately con	structed	to seek specific
	(1)	Organization	n		(2)	Prog	gramme Planni	ing	
	(3)	Extension A	dministra	ation	(4)	Non	e of the above		
146.		rbal communic		~	-	with	additional cap	acity for	tele-writting to
	(1)	Video confe	rencing		(2)	Aud	lio conferencin	g	
	(3)	Computer co	onferenci	ng	(4)	E-m	ail		
147.		levelop leader blem is one of	-	~ 1	e and h	elp th	nem in organiz	ing grou	up to solve their
	(1)	Extension Ed	ducation		(2)	Lead	dership		
	(3)	Community	Develop	ment	(4)	Teac	ching Method		
148.	plac	are the					on in which c	ommun	ication can take
	(1)	Teaching Me	ethod		(2)	Lear	rning Situation	1	
	(3)	Educational	Psycholo	ogy	(4)	Adr	ninistration		
149.	Exa	mple of prima	ıry group	• is	•				
	(1)	Farmer Unio	on		(2)	Co-0	Operative Soci	ety	
	(3)	The Village	Commu	nity	(4)	Trac	le Union		
 150.	Exp	ression of the	ends tov	vards whic	h our	efforts	are directed is	s knowr	as
	•	Problems							•

151.	Dur	ing 2004, the GOI appo an eminent agi			al commission on farmers under Chairmanship of ientist.					
	(1)	Dr. M.S. Swaminatha		(2)	Dr. Abhijit Sen					
	(3)	Dr. S.S Acharya		(4)	Dr. S.L. Guru					
152.		ia has target for produ lion Tonnes.	ction of	foodgra	ins during the yea	r 2014-15	was			
	(1)	261 (2)	251		(3) 271	(4)	281			
153.		arm on which no single total receipt is called _			re of income equals	as much	as 50 percent of			
	(1)	Specialized Farm		(2)	Mixed Farm					
	(3)	Diversified Farm		(4)	Ranching					
- <u> </u>	—	arm on which 50% or farm.		r	·		•			
	(1)	farm. Mixed (2) tests that can be a appl	Speciali —_	sed	(3) Ranching		Mechanised			
	(1) The	Mixed (2)	Speciali —_	sed ady the o	(3) Ranching		Mechanised			
	(1) The activ	farm. Mixed (2) tests that can be a applivity are as follows:	Speciali —_	sed	(3) Ranching		Mechanised			
	(1) The active (a) (c)	farm. Mixed (2) tests that can be a application are as follows: Character	Speciali —_	ady the (b)	(3) Ranching		Mechanised			
	(1) The active (a) (c)	farm. Mixed (2) tests that can be a application of the control o	Speciali —_	ady the (b)	(3) Ranching		Mechanised			
	(1) The active (a) (c) Ans	farm. Mixed (2) tests that can be a application application continue to the	Speciali —_	ady the (b)	(3) Ranching economic viability of Capital Common Sense	(4)	Mechanised			
155.	(1) The active (a) (c) Ans (1) (3)	farm. Mixed (2) tests that can be a application of the control o	Speciali	(b) (d) (2) (4)	(3) Ranching economic viability of Capital Common Sense Only (a) and (b) All (a), (b), (c) and	(4) of a schen	Mechanised			
155.	(1) The active (a) (c) Ans (1) (3)	tests that can be a applyity are as follows: Character Capacity wer options: Only (a), (b) and (c) Only (b), (c) and (d)	Speciali	(b) (d) (2) (4)	(3) Ranching economic viability of Capital Common Sense Only (a) and (b) All (a), (b), (c) and	(4) of a schen	Mechanised			

	The								
	(1)	Moghum Sale	Method	ŀ	(2)	Hath	na System		
	(3)	Open Auction	r Metho	d	(4)	Dara	a Sale Method		
158.	-	er agricultural (010-11, the	e averaș	ge size	e of operational h	olding	in Maharashtra
	(1)	1.15	(2)	1.44		(3)	1.57	(4)	1.28
159.		indicate		oportion o	of varia	ble in	the dependent t	variabl	e accounted for,
	(1)	R ²	(2)	t-test		(3)	F-test	(4)	SE
160.		margin	s refers	to the diff	 ference	betwe	een the prices p	revailii	ng at successive
	stage	e of marketing	at a give				1 1		
	stage (1)	of marketing. Concurrent	at a give		time.	Lagg	•		•
	Ŭ	Ũ	Ü		time.	Lagg	•		•
161.	(1) (3) AGN	Concurrent Both (1) and	(2) ity certif	en point of	(2) (4)	Lagg Non	ged	tural Pi	
161.	(1) (3) AGN	Concurrent Both (1) and the second s	(2) ————ity certif	en point of	(2) (4)	Lagg Non	ged e of these	tural Pr	
	(1) (3) AGN and (1)	Concurrent Both (1) and the second s	(2) ity certifet (2)	cication ma	(2) (4) ark und	Lagg Non er the	ged e of these Central Agricult 1937		oduce [Grading
	(1) (3) AGN and (1)	Concurrent Both (1) and the second s	(2) ity certifet (2)	cication ma	(2) (4) ark und	Noner the	ged e of these Central Agricult 1937		oduce [Grading
	(1) (3) AGN and (1)	Concurrent Both (1) and the second s	ity certifet(2)	cication ma	(4) ationsh	Lagg Non er the (3) ip bet two	ged The of these Central Agricult 1937 ween:		oduce [Grading
162.	(1) (3) AGN and (1) Proc (1) (3)	Concurrent Both (1) and the second s	ity certifict (2) n indica	fication ma 1932 tes the rela	(4) ationsh (2) (4)	Non er the (3) ip bet two	ged The of these Central Agricult 1937 ween: outputs	(4)	oduce [Grading

101.	The First Five-Year Plan draft outline was issued by the planning commission in the year										
	(1)	1947	(2)	1948		(3)	1950	(4)	1951		
165.	The	Minimum Suppe	ort Pri	ce of Pado	ly is ₹		during	the year	2015-16.		
	(1)	1310	(2)	1410		(3)	1250	(4)	1520		
166.	A fa	rm with land hol	lding :	size rangin	ıg betw	een o	ne to two hect	ares is ca	lled as :		
	(1)	Small farm			(2)	Sem	i - medium fai	rm			
	(3)	Medium farm			(4)	Mar	ginal farm				
167		Agricultural Fi							lndian Bank's der the Indian		
107.		pany's Act.	was	теогрог а	ica on						
107.			(2)	1969	ica on		1966	(4)	1967		
	(1)	pany's Act.	(2)	1969		(3)		(4)	_ _		
	(1)	pany's Act. 1968 is the exc	(2) eess of	1969		(3) pared		(4) what we	_ _		
	(1)	pany's Act. 1968 is the excar commodity.	(2) ress of	1969	are pre	(3) pared Con	to pay over v	(4) what we	_ _		
168.	(1) for a (1) (3)	pany's Act. 1968 is the exconcommodity. Surplus Payme:	(2) ress of nt lus	1969 what we	are pre (2) (4) Schem	(3) pared Con Mar	to pay over v sumer's Surpl ketable Surplu	(4) what we us is	are actually pay		
168.	(1) for a (1) (3)	pany's Act. 1968 is the excarcommodity. Surplus Payme: Marketed Surpl	(2) ress of nt lus	1969 what we	are pre (2) (4) Schemesearch	(3) pared Con Mar e initi	to pay over v sumer's Surpl ketable Surplu	(4) what we us is	are actually pay		
	(1) for a (1) (3) The AER (1)	pany's Act. 1968 is the excent commodity. Surplus Payme: Marketed Surpl Agro Economic	(2) ress of nt lus Resea onduc (2)	1969 what we rch (AER) et certain re 1959-60	are pre (2) (4) Schemesearch	(3) pared Con Mar e initistudio (3)	to pay over vector sumer's Surple ketable Surple lated ines in the field of 1954-55	(4) what we us is of Agricu	are actually pay a network of 15 ltural Economy.		
168. 169.	(1) for a (1) (3) The AER (1)	pany's Act. 1968 is the excent commodity. Surplus Paymer Marketed Surpl Agro Economic Centres which c	(2) ress of nt lus Resea onduc (2)	1969 what we rch (AER) et certain re 1959-60	are pre (2) (4) Schemesearch	pared Con Mar e initistudio	to pay over vector sumer's Surple ketable Surple lated ines in the field of 1954-55	(4) what we us is of Agricu	are actually pay a network of 15 ltural Economy.		

171.	Con	ventional barns o	f Catt	le housing a	are als	so call	led as:		
	(1)	Stanchion barns	s		(2)	Des	hi barn		
	(3)	Tail to tail barns	3		(4)	Hea	d to head barns	;	
172.	The	chemical used for	deho	orning in ca	lf is :				
	(1)	caustic lime			(2)	caus	stic soda		
	(3)	caustic ash			(4)	non	e of the above		
173.	Gros	ss energy value of	prote	ein is :					
	(1)	5.56 kcal/g			(2)	6.56	kcal/g		
	(3)	5.65 kcal/g			(4)	6.65	kcal/g		
 174.	 Whi	ch are the types o	of out	breeding sy	stem	?			
	(a)	out crossing		.					
	(b)	line breeding		•					
•	(c)	species hybridiz	zation				•		
	Ans	wer options :							
	(1)	Only (a)	(2)	Only (b)		(3)	(a) and (b)	(4)	(a) and (c)
175.	The	common method	s for :	semen collec	ction i	in bul	l for artificial in	seminat	ion are :
	(1)	Artificial cervix	and i	magnetic fie	eld				
	(2)	Artificial vagina	a and	Electro ejac	culatio	on			
	(3)	Cervical vagina	l cord	l and emaso	ulatio	n			
	(4)	Artificial cervix	and	e mas culatio	n				
 176.		ich housing syste ilable ?	m is	preferred fo	or po	ultry	production whe	ere sma	ll floor space is
	(1)	Deep litter syste	em		(2)	Free	e range system		
	(3)	Semi - intensive	syste	em	(4)	Batt	ery system		
			-		<u> </u>				

177.	The method of mating animals of wider degrees of relationship promotes unif and harmful characters are not developed quickly is called as:												uform character	
	(1)	Clos	e bree	eding			(2) Line breeding							
	(3)	Out	breed	ling				(4)						
 178.	Mate													
	(a)	Tara	ıi			(i)	Uttaı							
	(b)	God	avari			(ii)	Andl	hra P	radesh	ı				
	(c)	Pane	darpu	ri		(iii)	Central India							
	(d)	Toda	a			(iv)	Sout	h Ind	ia				•	
		(a)	(b)	(c)	(d)									
	(1)	(i)	(ii)	(iii)	(iv)									
	(2)	(ii)	(iii)	(iv)	(i)									
	(3)	(iii)	(i)	(ii)	(iv)									
	(4)	(iv)	(ii)	(i)	(iii)									
179.	The	The home tract of malvi breed of cattle is :												
	(1) Gwalior Region of M.							(2)	Marv	Marvar Region of Rajasthan				
	(3)	Mal	abar I	Regior	of Sc	outh I	ndia	(4)	Maw	al Regio	on of U.I	Ρ.		
180.	For	sexing	g of da	ay old	chick	s follo	wing	metho	od is co	ommonl	y used :			
	(1)	Ven	t met	hod				(2)	Benc	Benchman method				
	(3)	(3) Abomasum technique (4) Cand									ethod			
181.	The	secre	tory ti	issue (of mar	nmary	y glano	d con	sists of	numero	ous tiny	chamb	pers called as :	
	(1)	Cist	ern		(2)	Liga	ament		(3)	Alveoli		(4)	Canals	
कच्च	याका	 मासार् <u>ठ</u>	जागा	/SPA	CE FO	OR RO	DUGH	WOI	RK				P.T.O.	

182.	NDI	DB was establis	shed in v	which yea	ir?								
	(1)	1971	(2)	1960		(3)	1965	(4)	1975				
183.	Whi	ch are the hor	mones es	ssential fo	or mainte	enanc	e of Lactation :						
	(a)	Prolactin	(b)	STH		(c)	ACTH	(d)	TSH				
	Ans	wer options :											
	(1)	(a) and (c) or	ıly		(2)	(b) a	and (d) only						
	(3)	None of the a	above		(4)	All of the above							
184.	Wha	at are whey pro	oteins or	serum pr	oteins ir	ı the i	milk ?						
	(1)	α lactalbumi	n		(2)	β lactoglobulin							
	(3)	Both (1) and	(2)		(4)	Non	e of the above						
185.	True milk fats are formed by :												
	(1)) Combination of glycerine with fatty acids.											
	(2)	Combination of glycerine with aldehydes.											
	(3)	Combination of ketones with aldehydes.											
	(4)	Combination of aldehydes with fatty acids.											
186.	Sterilization of utensils and equipments is done by using :												
	(a)	Chlorine gas											
	(b)	Sodium bicarbonate											
	(c)	Steam at 15 lbs Pressure											
	Ans	wer options :											
	(1)	(a) only	(2)	(a) and	(c) only	(3)	(b) and (c) only	(4)	(a), (b) and (c)				
	— ਗੁਲਾ	———— मासाठी जागा /S	DACE E	אף פרענים	TH WO	· K	_						

Α		29										
187.	NDDB initiated "Operation Flood Programme" in 1970-71 with certain objectives as under :											
	(a) Organising the dairy co-operatives at the village level.											
	(b)	(b) Providing the Physical and Institutional infrastructure for milk procurement, processing and marketing.										
	(c) Production enhancement services and establishment of city dairies.											
	Which of the above statement's is/are correct:											
	(1)	(a) only	(2)	(b) and (c)	only	(3)	(a) and (c) or	ਪੀy (4)	(a), (b) and (c)			
188.	HANSA test is useful for detection of :											
	(1)	Cow milk with buffalo milk										
	(2)	Cow milk with cream or butter										
	(3)	Cow milk with whey										
	(4)	Cow milk with skim milk										
189.	Which of the following diets depresses the milk fat content?											
	(a)	a) High concentrate ration										
	(b)	High roughage ration										
	(c)	e) Finely ground hay										
	Answer options:											
	(1)	(a) only	(2)	(b) only		(3)	(a) and (c) or	uly (4)	(a), (b) and (c)			
190.	Prolactin functions as:											
	(1) Secretary cell proliferation during late lactation.											
	(2)	Secretary cell	prolifer	ation durin	g earl	y lact	ation.					
	(3)	(3) Synthesizer of lactose.										

Maintaining the pregnancy.

(4)

191.	Vitamin B_{6} , essential to all forms of life is also known as :													
	(1)	Nicotinic acid	I		(2)	Ribo	oflavin							
	(3)	Pyridoxine			(4)	Pan	tothenic acid							
192. 193.		Which one of the following toxins produced by Clostridium Botulinum does not cause toxicity to human beings so far ?												
	(1)	Type A	(2)	Type C		(3)	Type F	(4)	Туре В					
193.	Red/bloody bread spoilage is due to organism.													
	(1)	Serratia marce	nscens		(2)	Васі	llus Lichiniform	ís						
	(3)	Rhizopus nigr	icans		(4)	Peni	icillium expansu	m						
194.	Under FSSA 2006 the proprietary food means an article of food for which													
	(a)	(a) Standards have not been specified and is not unsafe.												
`	(b)	b) It does not contain any of the foods and ingredients prohibited under this act and regulations made there under.												
	(c)	c) Standards have been specified and is not unsafe.												
	(d)	None of the above												
	Answer options:													
	(1)	(a)	(2)	(b) and (d	:)	(3)	(a) and (b)	(4)	(d)					
195.	Which of the Vitamin under B-Complex is most sensitive to SO ₂ , a common food preservative chemical ?													
	(1)	Thiamine	(2)	Riboflavi	n	(3)	Niacin	(4)	Folic acid					
193. 194.		The enzymes used in chill-proofing of beers and production of plant protein hydrolysates are:												
	(1)	Pectinases	(2)	Cellulose	s	(3)	Proteases	(4)	Glycosidases					

A					31					RO8	
197.	The	natural emulsifie	r Leci	thin is der	ived fr	om _					
	(1)	Corn			(2)	Rap	eseed		·		
	(3)	Soybean			(4)	All	of the ab	ove			
 198.	The	additive used in j	prese	rvation and	l colora	ation (of meat p	products	is:		
	(1)	Calcium Propio		(2)	Cyclamates						
	(3) Butylated Hydroxytoluene					Sodium Nitrate and Nitrite					
197. 198. 199.	 (a) Nitrogenous Compounds and Sugars. (b) Nitrogenous Compounds and Organic acids. (c) Sugars and Organic acids. (d) Among Organic acids themselves. 										
	Answer options:										
	(1)	(a)	(2)	(b) and (c) .	(3)	(d)	(4)	All of the ab	ove	
200.	Biobased biodegradable packaging polymer like polylactic acid can be made									de into	
 200.	(1)	Films			(2)	Coe	xtruded	into La n	ninates		
	(3)	Thermoformed	•		(4)	Mol	ded into	bottles			

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कच्या कामासाठी जागा /SPACE FOR ROUGH WORK

सूचना -- (पृष्ठ 1 वरून पुढे....)

- (8) प्रश्नपुस्तिकेमध्ये विहित केलेल्या विशिष्ट जागीच कच्चे काम (रफ वर्क) करावे. प्रश्नपुस्तिकेव्यतिरिक्त उत्तरपत्रिकेवर वा इतर कागदावर कच्चे काम केल्यास ते कॉपी करण्याच्या उद्देशाने केले आहे, असे मानले जाईल व त्यानुसार उमेदवारावर शासनाने जारी केलेल्या ''परीक्षांमध्ये होणाऱ्या गैरप्रकारांना प्रतिबंध करण्याबाबतचे अधिनियम-82'' यातील तरतुदीनुसार कारवाई करण्यात येईल व दोषी व्यक्ती कमाल एक वर्षाच्या कारावासाच्या आणि/किंवा रुपये एक हजार रकमेच्या दंडाच्या शिक्षेस पात्र होईल.
- (9) सदर प्रश्नपत्रिकेसाठी आयोगाने विहित केलेली वेळ संपल्यानंतर उमेदवाराला ही प्रश्नपुस्तिका स्वतःबरोबर परीक्षाकक्षाबाहेर घेऊन जाण्यास परवानगी आहे. मात्र परीक्षा कक्षाबाहेर जाण्यापूर्वी उमेदवाराने आपल्या उत्तरपत्रिकेचा भाग-1 समवेक्षकाकडे न विसरता परत करणे आवश्यक आहे.

नमुना प्रश्न

Ŧ	Pick	out t	he c	nrect	word	ŧο	fill	in	the	hla	nk	

प्र. क्र. 201. I congratulate you ______ your grand success.

(1) for

(2) at

(3) on

(4) about

ह्या प्रश्नाचे योग्य उत्तर ''(3) on'' असे आहे. त्यामुळे या प्रश्नाचे उत्तर ''(3)'' होईल, यास्तव खालीलप्रमाणे प्रश्न क्र. 201 समोरील उत्तर-क्रमांक ''(3)'' हे वर्तुळ पूर्णपणे छायांकित करून दाखविणे आवश्यक आहे.

प्र. क्र. 201. (1) (2) (4)

अशा पद्धतीने प्रस्तुत प्रश्नपुस्तिकेतील प्रत्येक प्रश्नाचा तुमचा उत्तरक्रमांक हा तुम्हाला स्वतंत्ररीत्या पुरविलेल्या उत्तरपत्रिकेवरील त्या त्या प्रश्नक्रमांकासमोरील संबंधित वर्तुळ पूर्णपणे छायांकित करून दाखवावा. ह्याकरिता फक्त काळ्या शाईचे बॉल्पेन वापरावे, पेन्सिल वा शाईचे पेन वापरू नये.

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