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सूचनेविना

पर्यवेक्षकांच्या



वेळ: दोन तास

प्रश्नपुस्तिका क्रमांक BOOKLET No.

205329

प्रश्नपुस्तिका

एकूण प्रश्न : 200

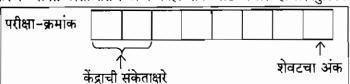
कृषि

एकूण गुण : 400

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.

(2) आपला परीक्षा-क्रमांक ह्या चौकोनांत न विसरता बॉलपेनने 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 उत्तरपत्रिकेवरील सूचनेप्रमाणे तुमच्या उत्तरपत्रिकेवर नमूद करावा. अशा प्रकारे उत्तरपत्रिकेवर उत्तरक्रमांक नमूद करताना तो संबंधित प्रश्नक्रमांकासमोर छायांकित करून दर्शविला जाईल याची काळजी घ्यावी. ह्याकरिता फक्त काळ्या शाईचे बॉलपेन वापरावे, पेन्सिल वा शाईचे पेन वापरू नये.
- (5) सर्व प्रश्नांना समान गुण आहेत. यास्तव सर्व प्रश्नांची उत्तरे द्यावीत. 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 अचूक 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, िकंवा 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 व्यक्तीविरुद्ध उक्त अधिनियमानुसार कारवाई करण्यात येईल व दोषी व्यक्ती शिक्षेस पात्र होईल. **XRM**

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सूचना - (पृष्ठ 1 वरुन 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 स्वतः बरोबर परीक्षाकक्षाबाहेर घेऊन जाण्यास परवानगी आहे. मात्र परीक्षाकक्षाबाहेर जाण्यापूर्वी उमेदवाराने आपल्या उत्तरपत्रिकेचा भाग 1 समवेक्षकाकडे न विसरता परत करणे आवश्यक आहे.

नमुना प्रश्न

- प्र. क्र. 201. The Catch varies inversely with the size of the :
 - (1) nozzle
- (2) droplet
- (3) obstruction
- (4) sprayer

ह्या प्रश्नाचे योग्य उत्तर "(3) obstruction" हे आहे. त्यामुळे या प्रश्नाचे उत्तर "(3)" होईल. आता खालीलप्रमाणे प्र. क्र. 201 समोरील उत्तर-क्रमांक "③" चा वर्तुळ स खालीलप्रमाणे पूर्णपणे छायांकित करून दाखविणे आवश्यक आहे.

प्र. क्र. 201. (1) (2)

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 बॉलपेन वापरावे, पेन्सिल वा शाईचे पेन वापरू नये.

पर्यवेक्षकांच्या सूचनेविना हे पृष्ठ उलटू नये

SPACE FOR ROUGH WORK

••	wn	•	•	
	(1)	Parthenocarpy	(2)	Polyembryony
	(3)	Sternospermocarpy	(4)	Fertilization
2.	The	xylem and phloem in dicot	roots are	e
	(1)	Tetrarch	(2)	Diarch
	(3)	Hexarch	(4)	Polyarch
3.	Wh	at is the terminology for divi	sion of c	ytoplasm ?
	(1)	Karyokinesis	(2)	Equational division
	(3)	Cytokinesis	(4)	None of the above
4.		ich is the term used for the y our to plant parts, such as or		gment that is precursor of Vitamin A and gives it?
	(1)	Xanthophill	(2)	Carotene
	(3)	Chlorophill	(4)	Antho cyanin
5.	Wh	ich of the following statemer	nts is fals	se ?
	(1)	a gene is a linear sequence	e of nuc	leotides
	(2)	genes control the synthesis	s of prote	ein
	(3)	one gene one enzyme hyp	othesis	was proposed by Lenderberg and Koverberg
	(4)	sickle cell anemia has leth	al effect	in homozygous condition
6		_		
ο.	Wh	o discovered the mutagenic	action o	of 'X' rays in barley and maize ?
ο.		o discovered the mutagenic Muller		of 'X' rays in barley and maize ? Stadler
о.	(1)	_	(2)	•
	(1) (3) Wh	Muller Devries	(2)	Stadler
	(1) (3) Wh	Muller Devries at is the term used for a pha	(2)	Stadler Blackslee
	(1) (3) Wh from (1)	Muller Devries at is the term used for a phant the equatorial region?	(2) (4) ase, whe	Stadler Blackslee en chromosomes move in opposite directions
7.	(1) (3) Wh from (1) (3)	Muller Devries at is the term used for a phant the equatorial region? Prophase	(2) (4) ase, whe	Stadler Blackslee en chromosomes move in opposite directions Metaphase Cytokinesis
7.	(1) (3) Whater (1) (3)	Muller Devries at is the term used for a phant the equatorial region? Prophase Anaphase	(2) (4) ase, whe (2) (4)	Stadler Blackslee en chromosomes move in opposite directions Metaphase Cytokinesis

XRM						6			A	
9.	Hov	w many codo	ns aı	e present	in genet	ic code ?				
		64		16	(3)		(4)	61		
10.		In cytoplasmic organelles which is the component that is the seat of protein synthesis, respiration and generation of high power ATP ?								
	(1)	Plastid			(2)	Centroson	ne			
	(3)	Golgi comp	lex		(4)	Mitochond	ria			
11.	The	Black Pepp	er is	pollinated	by					
	(1)	Wind	(2)	Insect	(3)	Water	(4)	Animals		
12.	 Wh	at is the nam	e for	one seede	d fruit o	f rice or ma	ize grain	?		
		Berry		Pepo		Siliqua	_	Caryopsis		
13.		An organism derived from the union of gametes of dissimilar genetic constitution is called as								
	(1)	Homozygot	е		(2)	Heterozyg	ote			
	(3)	Multiplezygo	ote		(4)	Hybrid				
14.	Het	Heterosis is commercially exploited in								
	(1)	Cross-pollin	ated	crops						
	(2)	Often cross	polli	nated crop	s					
	(3)	Self pollinat	ted c	rops						
	(4)	Vegetatively	y pro	pagated cr	rops					
15.		e YVM resista al variety of B		-	ra deve	loped by pu	ıre line se	election, collect	ed from a	
	(1)	Pusa Kranti	i		(2)	Parabani l	Kranti			
	(3)	Pusa Phalg	juni		(4)	Both 1 and	12			
16.		ree or more for called as	orms	of genes	occupyir	ng a single	locus on	the same chro	mosome,	
	(1)	ISO alleles								
	(2)	Recessive	allele	s						
	(3)	Dominant a	llele	S						

(4) Multiple alleles

(2) Vegetation

(4) Germination

24. Which is the acquisition on hastening ability to flower by chilling treatment?

(1) Photoperiodism

(3) Vernalization

25.	under sp	ecific sta	anda		and o			seed which is produced agency and designed to
	(1) Four	ndation	seed		(2)	Breeder's see	d	
	(3) Regi	stered	seed		(4)	Commercial se	eed	
26.	Which o		llowi	ng brings a	bout	cell elongation	alon	gwith longitudinal axis
	(1) Auxi	ns			(2)	Cytokines		
	(3) Gibb	erellins			(4)	None of these		
27.	Which is	not a sh	ort d	ay plant ?				
	(1) Pota	to	(2)	Soyabean	(3)	Maize	(4)	Sugarcane
28.		•			•	ocess by which		r vapour is released in to and stems ?
	(1) Res	oiration			(2)	Photosynthesi	is	
	(3) Tran	slocatio	n		(4)	Transpiration		
29.	The vern	alizatior	pro	cess require	s	9	% of n	ormal oxygen.
	(1) 2.0		(2)	0.2	(3)	0.02	(4)	None of these
30.	Which el	ement is	s ess	ential for IAA	syntl	hesis ?		
	(1) Iron		(2)	Calcium	(3)	Zinc	(4)	Chlorine
31.	Ripening	of fruits	s is a	ssociated wi	th rele	ease of		growth regulator.
	(1) Aux	n			(2)	Gibberellins		
	(3) Cyto	kines			(4)	Ethelene		
32.	Which of	the follo	owing	g plants is us	seful f	or controlling in	door	pollution ?
	(1) Pea	ce Lily			(2)	English Ivy		
	(3) Chry	/santhei	mum		(4)	All of these		
33.				he earth regi	on, w	here ecosystem	n oper	rates?
	(1) Atm	•			(2)	, ,		
	(3) Litho	osphere ————			(4)	Biosphere		

	aftercare upto final harvesting	•	ethods of raising tree crops, their growth and as
	(1) Silviculture		Sericulture
	(3) Forest ecology	` '	Silviculture system
35.	The Nanda Devi Biosphere F	Reserve is	in
	(1) Rajastan	(2)	Uttar Pradesh
	(3) Madhya Pradesh	(4)	Assam
36.	Who demonstrated the totipo	tency of pl	ant cells by invitro techniques ?
	(1) Hanning	(2)	Laibach
	(3) Haberlandt	(4)	Biffen
37.	Bamboo [Dendrocalamus str	ictus] is m	nainly used in industry on a
	(1) Furniture		
	(2) Aqzicultural implements		
	(3) Paper and pulp		
	(4) Toys and art pieces		
38.			isolate bio-chemical mutant from haploid cell
	suspension which was treated	d with Eth	yl methyl supphonate.
	·		Donata a (A) Norta Isl
	(1) Carlson (2) Huge		Burton (4) Nujeki
39.	(1) Carlson (2) Huge	(3)	Burton (4) Nujeki by fusion between one/more protoplasts of
39.	(1) Carlson (2) Huge What is the hybrid protoplast	(3)	by fusion between one/more protoplasts of
39.	(1) Carlson (2) Huge What is the hybrid protoplast each of the two species is call.	(3) t produced lled as (2)	by fusion between one/more protoplasts of
39.	(1) Carlson (2) Huge What is the hybrid protoplast each of the two species is call (1) Homocaryons (3) Heterokaryons	(3) t produced lled as (2) (4)	by fusion between one/more protoplasts of Fusogen
	(1) Carlson (2) Huge What is the hybrid protoplast each of the two species is call (1) Homocaryons (3) Heterokaryons A piece of tissue obtained from	(3) t produced lled as (2) (4)	by fusion between one/more protoplasts of Fusogen None of these
	(1) Carlson (2) Huge What is the hybrid protoplast each of the two species is call. (1) Homocaryons (3) Heterokaryons A piece of tissue obtained from called as	(3) t produced liled as (2) (4) m a part of	by fusion between one/more protoplasts of Fusogen None of these plant of interest to be used in tissue culture is
40.	(1) Carlson (2) Huge What is the hybrid protoplast each of the two species is call. (1) Homocaryons (3) Heterokaryons A piece of tissue obtained from called as (1) Meristem	(3) t produced lied as (2) (4) m a part of (2) (4)	by fusion between one/more protoplasts of Fusogen None of these plant of interest to be used in tissue culture is Embryoculture
40.	(1) Carlson (2) Huge What is the hybrid protoplast each of the two species is call. (1) Homocaryons (3) Heterokaryons A piece of tissue obtained from called as (1) Meristem (3) Explant	(3) t produced lied as (2) (4) m a part of (2) (4)	by fusion between one/more protoplasts of Fusogen None of these plant of interest to be used in tissue culture is Embryoculture
40.	(1) Carlson (2) Huge What is the hybrid protoplast each of the two species is call. (1) Homocaryons (3) Heterokaryons A piece of tissue obtained from called as (1) Meristem (3) Explant Citrus jambiri is the scientific	(3) t produced led as (2) (4) m a part of (2) (4) name of	by fusion between one/more protoplasts of Fusogen None of these plant of interest to be used in tissue culture is Embryoculture Callus culture Rough lemon

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(4) Diosgenin
SPACE FOR ROUGH WORK

(3) Cheratin

68.	Which of the following species	s of Jasmi	num has highly scented yellow flowers?					
	(1) Jasminum sambac	(2)	J. Panniculatum					
	(3) J.humile	(4)	J.officinele					
69.	Which is the informal type of g	arden de	sign ?					
	(1) Mughal Garden	(2)	English Garden					
	(3) Italian Garden	(4)	French Garden					
70.	Gladiolus is propagated by							
	(1) Bulb	(2)	Tuber					
	(3) Rhizome	(4)	Corm					
71.	Name the precursor of natual	auxin						
	(1) Trytophan	(2)	Zeatine					
	(3) 2.4.D	(4)	Morphactine					
72.	Which growth regulator is contained in the storage ?	mmerciall	y used to minimise spreading losses during					
	(1) 2,4,5-T	(2)	MH-40					
	(3) IAA	(4)	NAA					
73.	Name the variety of onion suit	able for d	ehydration					
	(1) N-53	(2)	Pusa Red					
	(3) Pusa White Round	(4)	Baswant 780					
74.	Name the agency involved in	export of I	norticultural produce from India					
	(1) NHM	(2)	NHB					
	(3) APEDA	(4)	HOPCOMS					
75.	What does the minimum processing includes ?							
	(1) Grading and sorting							
	(2) Pasteurization							
	(3) Cooking and heating							
	(4) Straining							
	SF	PACE FOR	ROUGH WORK P.T.O					

XRM				14	A
76.	For	making good jelly from fruits	like gu	ava or woodapple they should be rich in	
	(1)	Citric acid	(2)	Pectin	
	(3)	Fructose	(4)	Aroma	
77.	Mai	rmalade is prepared from			
	(1)	Citrus	(2)	Guava	
	(3)	Pineapple	(4)	Mango	
78.	Wh	y the pre-cooling is carried ou	t in fru	its ?	
	(1)	Removal of external heat			
	(2)	To reduce decay			
	(3)	Removal of internal and field	l heat		
	(4)	None of these			
79.	Tre	atment of cut flower after harv	esting	with low concentration of sugar is called	
	(1)	Hardening	(2)	Loading	
	(3)	Pulsing	(4)	None of these	
80.	Cid	ar wine is prepared from		fruit.	
	(1)	Grape	(2)	Pineapple	
	(3)	Apple	(4)	Strawberry	
81.	Wir	ng bearing thoracic segments	are co	llectively called as	
	(1)	Mesothorax	(2)	Pterothorax	
	(3)	Prothorax	(4)	Metanotum	
82.	Wh	ich of the following is the pred	ator of	mealy bug ?	
	(1)	Trichogramma			
	(2)	Zygogramma			
	(3)	Cryptolaemus			
	(4)	Crotogonus			
83.			the sp	ray solution into fine droplets ?	
	(1)		(2)	Pump	
	(3)	Nozzle	(4)	Lance	

Α			15		XRM				
84.	Othreis Fullonica is a pest that da	amage	s citrus fruits in its	stage.					
	(1) Egg stage	(2)	Larval stage						
	(3) Pupal stage	(4)	Adult stage						
85.	Economic threshold level is always								
	(1) Higher than economic injury	level							
	(2) Lower than economic injury	level							
	(3) Equal to the economic injury	/ level							
	(4) None of the above								
86.	Contarinia sorghicola is a pest of	•	-						
	(1) Citrus	(2)	Sunflower						
	(3) Sorghum	(4)	Sesamum						
87.	Diflubenzuron is a								
	(1) Fumigant	(2)	Soil insecticide						
	(3) Chitin Synthesis inhibitor	(4)	Seed dresser						
88.	In bird scarer the chemical used	to prod	luce acetylene gas is	-					
	(1) Calcium chloride	(2)	Calcium carbide						
	(3) Calcium carbonate	(4)	Sodium chloride						
89.	Juvenile hormone is produced by	у							
	(1) Prothoracic glands								
	(2) Neuro secretary cells of brai	n							
	(3) Corpora allata								
	(4) Corpora cardiaca								
90.	Grassy stunt disease of rice is tra	nsmitt	ed by						
	(1) Aphids	(2)	Thrips						
	(3) Brown Planthopper	(4)	Gundhi bug						
91.	In preying mantid fore legs are m	odified	las						
	(1) Cursorial	(2)	Scansorial						
	(3) Raptorial	(4)	Foragial						

(4) None of the above

100.	Respiration in insect takes place	e throug	h a system of internal tubes known as						
	(1) Tormac	(2)	Tracheae						
	(3) Tarsomere	(4)	None of the above						
101.	Who developed the first microso	cope ?							
	(1) Leeuwenhoek	(2)	Prevost						
	(3) Michili	(4)	Tillet						
102.	The microorganisms obtaining t	heir food	d from dead organic matter are referred to as						
	(1) Pathogens	(2)	Parasites						
	(3) Saprophytes	(4)	Obligate parasites						
103.	In which one of the following pobserved?	olant dis	eases the phenomenon of polymorphism is						
	(1) Rust diseases of wheat								
	(2) Wilt diseases fur								
	(3) Smut diseases jowar								
	(4) Root rot diseases of cotton								
104.	The science which deals with the is referred to as	study of	f epidemics and factors affecting the epidemics						
	(1) Mycology	(2)	Epidemiology						
	(3) Bacteriology	(4)	Virology						
105.	Which one of the following is an	exampl	le for necrotic type of symptoms ?						
	(1) Tikka disease of groundnu	t							
	(2) Yellow vein mosaic of bhe	ndi							
	(3) Powdery mildew of pea								
	(4) Leaf curl of chilli								
106.	Rust of linseed is caused by								
	(1) Puccinia lini								
	(2) Melampsora lini								
	(3) Uromyces lini								
	(4) Urocystis lini								
	SPA	CE FOR	ROUGH WORK						

(3) Puccinia arachidis

(4) Phaeoisariopsis personata

114.	Soy	bean rust is caused by		
	(1)	Puccinia helianthi	(2)	Uromyces vignae
	(3)	Phakopsora pachyrhiza	(4)	Uromyces appendiculatus
115.				rantine and Storage Organisation is located at
	• ,	Coimbatore	• ′	Cuttack
	(3)	Faridabad	(4)	Hyderabad
116.	Cau	usal organism of downey mildev	v of (grape is
	(1)	Elsinoe ampelina		
	(2)	Plasmopara viticola		
	(3)	Uncinula necator		
	(4)	Xanthomonas campestris		
117.	Afla	toxin is produced by the fungus		
	(1)	Penicillium notatum	(2)	Trichoderma viridae
	(3)	Aspergillus flavus	(4)	Albugo candida
118.	Firs	t plant parasitic nematode <i>Ang</i>	uina	tritici was described by
	(1)	Needham 1743	(2)	Garret 1965
	(3)	Borellus 1956	(4)	Leeuwenhoek 1675
119.	In th	ne decomposition of organic ma	tter,	cellulose is attacked by
	(1)	Trichoderma and Aspergillus		
	(2)	Ganoderma and Psalliotta		
	(3)	Albugo and Puccinia		
	(4)	Pythium and Microphomina		
120.	Wh	ich one of the following is an or	gani	sulphur fungicide ?
	(1)	Formaldehyde	(2)	Zineb
	(3)	PCNB	(4)	Vapam
121.	And	omie is a term used to describe	failu	re of
	• •	Class system	• ,	Values
	(3)	Norms	(4)	Social organisation
		SPACE	FOR	BOUGH WORK

(4) Overhead projector

(1) Slide projector(3) Opaque projector

144.	Whi	ich of the following is not true	e ?	
	(1)	Programme planning is a c	ontinuou	us process
	(2)	Programme planning is a te	eaching	process
	(3)	Programme planning has p	ermanc	e with flexibility
	(4)	Programme planning is a n	on-coor	dinating process
145.	Nar	ne the evaluation done simu	ultaneous	sly while the programme is running
	(1)	Concurrent evaluation		
	(2)	Expost evaluation		
	(3)	External evaluation		
	(4)	Internal evaluation		
146.		•	•	esing courses of action from the available epurpose of achieving desirable objectives
	(2)	Decision making		
	(3)	Monitoring		
	(4)	Planning		
147.	In S	SWOT analysis 'T' stands for		
	(1)	Tenure	(2)	Test
	(3)	Threats	(4)	Time
148.	The	e first KVK was established i	n 1974 a	at
	(1)	Nagpur	(2)	Ludhiana
	(3)	Nilokheri	(4)	Pondichery
149.		is the informatio	n that se	nder of a message receives from the receiver.
	(1)	Fidelity	(2)	Feedback
	(3)	Instinct	(4)	Treatment
 150.		ich of the following is an exa	ample of	mass communication ?
	(1)	Radio		
	(2)	T.V.		
	(3)	Newspapers		
	(4)	All of these		
		SPA	ACE FOR	ROUGH WORK

(2) 15(4) 21

(1) 12

(3) 18

(3) remains constant eventhough there is increase in the level of production

(2) increases with increase in level of production

(4) none of the above

164.				ck absorber in the economy and provides a
		ence mechanism against widely	HUC	tuating price lever?
		MSP		
	(2)	Procurement price		
	` '	Bufferstock		
	(4)	Issue price		
165.	Wh	ich one of the following operate	s in li	ivestock market?
	(1)	Merchant middleman		
	(2)	Commission agent		
	(3)	Broker		
	(4)	Facilitative middleman		
166.	Pro	duction function indicates the re	elatio	onship between
	(1)	two inputs		
	(2)	two outputs		
	(3)	input and output		
	(4)	none of the above		
167.		which of the following stages of phe production of a commodity?	rodu	ction function, the maximum profit is obtained
	(1)	Stage I	(2)	Stage II
	(3)	Stage III	(4)	Stage I and II
168.		en a change in price brings ab nanded, the demand is said to b		exactly proportionate change in the quantity
	(1)	Unitary elastic		
	(2)	Relatively elastic demand		
	(3)	Perfectly inelastic demand		
	(4)	Relatively inelastic demand		
169.	A lo	pan taken for a period of 6 to 18	mon	iths is a
	(1)	short term loan		
	(2)	medium term loan		
	(3)	long term loan		
	(4)	none of these		
		SPACE	FOR	ROUGH WORK

170.	70. In the first stage of production function							
	(1) $MP > AP$ (2) $AP > MP$							
	(3) $AP = MP$ (4) $MP = 0$							
171.	71. Buffalo belongs to species of animal.							
	(1) Bos taurus							
	(2) Bos indicus							
	(3) Bos bubalis							
	(4) Capra hircus							
172.	72. Which of the following is not a milch breed of cattle?							
	(1) Sahiwal							
	(2) Tharparkar							
	(3) Gir							
	(4) Hariana							
173.	For identification marks, in which process several small holes are punched with a die?							
	(1) Tattooing							
	(2) Tagging							
	(3) Branding							
	(4) Notching							
174.	74. In Poultry which system is confined to the house entirely with no a and is adopted where land is limited?	ccess to land outside						
	(1) Extensive system							
	(2) Folding unit system							
	(3) Loose housing system							
	(4) Intensive system							
175.	75. The practice of breeding sire of a given breed to non descript female for generation to generation is known as	es and their offspring						
	(1) Grading up							
	(2) Hybrid vigour							
	(3) Inbreeding							

(4) Species Hybridization

XRM		28					
176.	The b	The birth of first embryo transfer calf in cattle in India was reported in 1986 by					
	(1) N	 NDRI KARNAL IVRI Izzat Nagar AndhrapradeshAgricultural University Tirupati Indian Agricultural Research Institute (IARI) New Delhi 					
	(2) I						
	(3) A						
	(4) Ir						
177.	Devel	Development of fertilized ovum takes place in					
	(1) C	Oviduct					
	(2) L	Jterus					
	(3) C	Cervix					
	(4) C	Ovaries					
178.	What	What is the oestrum period of a cow?					
	(1) 1	2-14 hrs (2	1-2 hrs				
	(3) 4	-5 days (4	2-3 days				
179.	Poor	quality silage contains					
	(1) H	ligher acetic acid					
	(2) H	ligher butyric acid					
	(3) H	ligher propionic acid					
	(4) L	ower butyric acid					
180.	Which	Which fodder crop is the best crop for hay making?					
	(1) N	<i>M</i> aize					
	(2) H	lybrid Napier					
	(3)	Green oat					
	(4) 5	Sorghum					
181.	heatir	Higher Temperature Short Time (HTST) method of pasteurization of milk refers to heating every particle of milk at the temperature of followed by immediate cooling to 5° C or below					
	(1) 7	'2° C for atleast 15 seconds					
	(2) 6	(2) 63°C for atleast 30 minutes					
	(3) 1	(3) 115°C for atleast 3 – 15 minutes					
	(4) 1	35 - 150°C for 1 - 5 seconds					

182.	Colostrum, the secretion after calving contains more amount of (1) Protein				
	(2) Fat				
	(3) Lactose				
	(4) Water				
183.	What is the maximum limit for sugar in Ice-Cream as per ISI specification?				
	(1) 40%				
	(2) 8%				
	(3) 10%				
	(4) 15%				
 184.	is used for detection of total solids in milk.				
	(1) Refractive index				
	(2) Reichster's scale				
	(3) Richmond's formula				
	(4) Valenta test				
185.	The boiling point of milk is				
	(1) 100° C				
	(2) 100.17° C				
	(3) 101° C				
	(4) 99.7° C				
186.	Which of the following reagent/chemical is used for detection of bicarbonate as adulterant in milk?				
	(1) Rosalic acid				
	(2) Resorcinol				
	(3) Resins				
	(4) Iodine				
187.	The average specific gravity of cow milk ranges (at 60°f) from				
	(1) 1.028 – 1.030				
	(2) 1.032 – 1.035				
	(3) 1.035 – 1.037				
	(4) 0.93 – 0.95				
	SPACE FOR ROUGH WORK				

XRM			30	Α		
188.	Fat percentage in Ghee is					
	(1) 99.5	(2)	90.0			
	(3) 85.0	(4)	80.0			
189.	On an average to obtain 1ml of milk, how much volume of blood needs to be circulated in mammary glands of a cow?					
	(1) 500 litre		500 ml			
	(3) 10 ml	(4)	10 litre			
190.	During which milking operation the comparative bacterial load is maximum in milk?					
	(1) Stripping					
	(2) Middle milk					
	(3) Fore milk					
	(4) None of the above	•				
191.	Parboiling of rice results into					
	(1) Higher vitamin content than milled rice					
	(2) Higher mineral content than milled rice					
	(3) Better cooking quality than milled rice					
	(4) All of these					
192.	Large quantities of meat and meat products are stored, distributed and marketed in					
	(1) Frozen form					
	(2) Fresh form					
	(3) Cooked form					
	(4) Dry form					
193.	Most innovative food preservation technique of 21st Century is					
	(1) Aseptic packing					
	(2) Hurdle technology	/				
	(3) Irradiation					
	(4) Pascalization					
194.	Egg shell consists of _	per	cent of calcium carbonate.			
	(1) 94	(2)	80			
	(3) 60	(4)	100			

A		31	XRM		
195.	The maximum limit of incorporation of common salt in butter is ?				
	(1) 0.5%	(2) 1.0%			
	(3) 5.0%	(4) 2.5%			
196.	Addition of little more sugar than recommended level in jelly preparation leads to formation of				
	(1) Cloudy jelly				
	(2) Tough jelly				
	(3) Syrupy jelly				
	(4) Perfect jelly				
197.	Concentration process that exposes food to 100° C or higher temperatures for a prolonged period cause				
	(1) Flavour change				
	(2) Nutritional properties cha	ange			
	(3) Darkening of colour				
	(4) All of the above				
198.	The maximum limit for bacter 1965 is (IS: 1165).	al count (per g) for edible casein as	per ISI specification		
	(1) 1 lakh/g				
	(2) 50,000/g				
	(3) 2,00,000/g				
	(4) 100/g				
199.	Breakdown of protein by the action of micro-organisms is known as				
	(1) Rancidity				
	(2) Souring				
	(3) Proteolysis or peptoniza	tion			
	(4) Sweet curdling				
200.	The rancidity caused by form	ation of free fatty acids is called as			
	(1) Oxidative rancidity				
	(2) Reduction rancidity				
	(3) Hydrolytic rancidity				

P.T.O.

(4) None of these