प्रश्नपुस्तिका क्रमांक	कृषि - दि- 1;	- ञिवा (मुख्य) परीक्षा गडिसेंबर, 2017	[-2017	
BOOKLET No.	01421	प्रश्नपुस्तिका-II	संच क्र.	Δ
वेळ: 1 (एक) तार	<b>T10</b>	पेपर क्र 2 कृषि		एकूण प्रश्न : 100 एकूण गुण : 200
				<u></u>

## सूचना

(1) सदर प्रश्नपुस्तिकेत 100 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 बदलन घ्यावी.

(2)	आपला परीक्षा-क्रमांक ह्या चौकोनांत	परीक्षा-क्रमांक	
• •	न विसरता बॉलपेनने लिहावा.		∱ शेवटचा अंक
		कंद्राचा सकताकर	

- (3) वर छापलेला प्रश्नपुस्तिका क्रमांक तुमच्या उत्तरपत्रिकेवर विशिष्ट जागी उत्तरपत्रिकेवरील सूचनेप्रमाणे न विसरता नमूद करावा.
- <del>ا</del> या प्रश्नपुस्तिकेतील प्रत्येक प्रश्नाला 4 पर्यायी उत्तरे सुचविली असून त्यांना 1, 2, 3 आणि 4 असे क्रमांक दिलेले आहेत. त्या (4) उघट्ट चार उत्तरांपैकी सर्वात योग्य उत्तराचा क्रमांक उत्तरपत्रिकेवरील सूचनेप्रमाणे तुमच्या उत्तरपत्रिकेवर नमूद करावा. अशा प्रकारे उत्तरपत्रिकेवर उत्तरक्रमांक नमुद करताना तो संबंधित प्रशन्त्रमांकासमोर छायांकित करून दर्शविला जाईल याची काळजी घ्यावी. ह्याकरिता फक्त काळ्या शाईचे बॉलपेन वापरावे, पेन्सिल वा शाईचे पेन वापरू नये.
- सील सर्व प्रश्नांना समान गुण आहेत. यास्तव सर्व प्रश्नांची उत्तरे द्यावीत. घाईमुळे चुका होणार नाहीत याची दक्षता घेऊनच शक्य (5) तितक्या वेगाने प्रश्न सोडवावेत. क्रमाने प्रश्न सोडविणे श्रेयस्कर आहे पण एखादा प्रश्न कठीण वाटल्यास त्यावर वेळ न घालविता पढील प्रश्नांकडे वळावे. अशा प्रकारे शेवटच्या प्रश्नापर्यंत पोहोचल्यानंतर वेळ शिल्लक राहिल्यास कठीण म्हणून 似 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.
- सूचनेविना (7) प्रस्तुत परीक्षेच्या उत्तरपत्रिकांचे मूल्यांकन करताना उमेदवाराच्या उत्तरपत्रिकेतील योग्य उत्तरांनाच गुण दिले जातील. तसेच ''उमेदवाराने वस्तुनिष्ठ बहपर्यायी स्वरूपाच्या प्रश्नांची दिलेल्या चार उत्तरांपैकी सर्वात योग्य उत्तरेच उत्तरपत्रिकेत नमूद र्यवेक्षकांच्या करावीत. अन्यथा त्यांच्या उत्तरपत्रिकेत सोडविलेल्या प्रत्येक चार चुकीच्या उत्तरांसाठी एका प्रश्नाचे गुण वजा करण्यात येतील''.

## ताकीढ

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 तस्तुदीनुसार 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 अनधिकृतपणे 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.

अंतिम पुढील सूचना प्रश्नपुरि-तेकेच्या पहा -----

# कच्च्या कामासाठी जागा/SPACE FOR ROUGH WORK

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Α	3 T10						10		
1.	feed	is the ling, oviposition		the insects fro ble to colonize.	m				
	(1)	Tolerance			(2)	Non-preferer	ice		
	· (3)	Antixenosis			(4)	Ecological re	sistanc	e	
2.	Ecd	ysone or molting	g horr	none is secrete	ed by	<u>_</u>	<b></b>		
	(1)	Prothoracic gla	and		(2)	Corpora allat	ta		
	(3)	Corpora cardia	aca		(4)	NSC			
3.	The	scientific name	of Ge	rbil rat is					
	(1)	Rattus rattus			(2)	Bandicota be	ngalen	sis	
	(3)	Tatera indica			(4)	Mus booduga	ı		
4.		vas deferens b rmatozoa congre		es enlarged al	long its	course to for	.m	, in whi	ich
	(1)	Ejaculatory du	nct		(2)	Testes			
	(3)	Oviduct			(4)	Vesicula sem	inalis		
5.	In H	BG II Bt cotton,	which	of the followin	ng gene	s are incorpor	ated ?		
	(1)	Cry 2 Ac and 0	Cry 1	Ab	(2)	Cry 3 Ab and	l Cry 1	Ac	
	(3)	Cry 1 Ac and 0	Cry 2	Ab	(4)	Cry 1 Ac			
6.	Whi	ich of the followi	ing no	zzles forms th	e spray	in the form of	cones	and jets ?	
	(1)	Flood jet nozzl	le		(2)	Adjustable n	ozzle		
	(3)	Swivel nozzle	_		(4)	None of the a	above		
7.		name 'Uzi fly', I'. Where is it loo	-		erry si	lkworm is deri	ved fro	m a village call	led
	(1)	South Korea			(2)	Thailand			
	(3)	China			(4)	Japan			
8.	Inse orde	ect growth reguer	lator	Buprofezin is	used f	for the control	of ins	ects belonging	to
_	(1)	Lepidoptera	(2)	Coleoptera	(3)	Homoptera	(4)	Diptera	
9.	In i	nsects, each ova	ry cor	nposed of egg t	tube is	known as			
	(1)	Spermatheca	(2)	Oviduct	(3)	Ovariole	(4)	Oocyte	
10.		ich of the follow lephosphorylati			ed to res	store phosphor	ylated	(inhibited) AC	hE
	(1)	2-PAM	(2)	Diazepam	(3)	Epinephrine	(4) 1	None of the abov	ve
कच्च्य	ा कामार		EFOR	ROUGH WORK	(	·		 Р.Т.	0.

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- (1) Chytridiomycetes (2) Basidiomycetes
- (3) Ascomycetes (4) Deuteromycetes

12. From the following fruiting bodies of fungi, which fruiting bodies are asexual ?

- a. Synnema and Acervulus
- b. Sporodochium and Pycnidium
- c. Apothecium and Cleistothecium
- d. Perithecium and Ascostroma

#### **Answer Options :**

- (1) a and c (2) a and b
- (3) a and d (4) b and c

13. Choose the fungal pathogen, which is responsible for downy mildew of grape.

- (1) Sclerospora graminicola
- (2) Sclerospora sacchari
- (3) Plasmopara viticola
- (4) Peronosclerospora phillippinensis

#### **14.** Match the following :

	А			В		
a.	Cyst 1	Nemato	de	I.	Meloidogyne	
b.	Root I	Knot Ne	ematode	II.	Heterodera	
c.	Burro	wing N	ematod	le	III.	Ditylenchus
d.	Stem	Nemate	ode		IV.	Radopholus
	a	Ь	с	d		
(1)	I	II	III	IV		
(2)	II	Ι	IV	III		
(3)	III	IV	II	Ι		
(4)	IV	III	Ι	II		

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Α	5								
15.	The plant pathological models used to estimate yields and forecasting of diseases are								
	(1)	Conceptual models	(2)	Analytical models					
	(3)	Predictive models	(4)	None of these					
16.		er germination of seed of pha ot in search of hose is observed		lant parasite, the rotating of leafless					
	(1)	Mistletoe	(2)	Striga					
	(3)	Cuscuta	(4)	Broomrape					
17.		ect the name/s of the parasitetables.	itic nematod	e which causes root knot disease in					
	(1)	Heterodera avenae							
	(2)	Meloidogyne spp							
	(3)	Anguina tritici							
	(4)	(1) and (2) only							
18.	Nor	a-availability of zinc causes the	e disease						
	(1)	Black heart of potato	(2)	Black tip of mango					
	(3)	Tip burn of rice	(4)	Khaira of rice					
19.	Wh	ich stages of wheat stem rust :	are found in t	the alternate stage ?					
	(1)	Stage I and Stage II	(2)	Stage III and Stage IV					
	(3)	Stage I and Stage III	(4)	Stage 0 and Stage I					
20.	Agr due	iculture, Government of India	a withheld th 1 pathogens	ration under the Union Ministry of the import permit of garlic from China in the bulb of garlic in 2005. Of these					
	(1)	Urocystis cepulae	(2)	Embellisia alli					
	(3)	Puccinia porri	(4)	Aspergillus spp					

T10	6					
21.	In mango, for getting true-to-type seed are used.	rootstock; mango varieties				
	(1) Monoembryonic	(2)	Polyembryonic			
	(3) Both (1) and (2)	(4)	Wild species of genus Mangifera			
22.	Which of the following is a climacteric fi	 ruit ?				
	(1) Mandarin (2) Sapota	(3)	Litchi (4) Pomegranate			
23.	Rust of linseed is caused by which of the	e patho	ogens ?			
	(1) Uromyces lini	(2)	Urocystis lini			
	(3) Melampsora lini	(4)	Puccinia lini			
24.	fruit crop is commonly grown	n on sle	opy lands of west and east coast.			
	(1) Ber (2) Fig	(3)	Mango (4) Cashewnut			
25.	Special horticultural practice followed varieties of guava is known as	for in	acreasing production in erect growing			
	(1) Pruning	(2)	Bending			
	(3) Bahar treatment	(4)	Notching			
26.	Sweet orange variety 'Sathgudi' has its	origin				
	(1) Kerala	(2)	Andhra Pradesh			
	(3) Orissa	(4)	Tamil Nadu			
27.	In apomixis when the embryo arises di it is known as	rectly	from egg nucleus without fertilization,			
	(1) Vegetative apomixis	(2)	Non-recurrent apomixis			
	(3) Recurrent apomixis	(4)	Floral apomixis			
28.	On the basis of vegetable crop hus convenient.	sbandr	y classification is more			
	(1) Botanical	(2)	Method of culture			
	(3) Based on seasons	(4)	All of the above			
29.	Chilli is one of the richest source of v ascorbic acid content when	itamin	'C'. The fruit accumulates maximum			
	(1) It is tender	(2)	It turns to maturity			
	(3) It gets dry	(4)	All of the above			
- <u></u>	'Kufri badshah' variety of potato is resis	- stant to	odisease.			
	(1) Anthracnose (2) Late blight	(3)	Wart (4) Scab			
	ा कामासाठी जागा / SPACE FOR ROUGH WORK	<del>,</del>				
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Α		7				T10
31.	Little leaf disease of brinjal is cause	d by				
	(1) Bacteria (2) Mycoplas	ma (3)	Fungi	(4)	None of t	hese
32.	Which variety of cucumber is re Konkan region ?	commende	d for comm	ercial c	ultivation	in the
	(1) Sheetal (2) Himangi	(3)	Poinsett	(4)	Pusa san	yog
33.	Tuberose is also used as cut flower.	The post h	arvest life of	spike de	pends on	
	(1) Cultural practices adopted for	growing cr	op			
	(2) Temperature, relative humidit	y and win	d velocity			
	(3) Carbohydrate reserve and end	ogenous pl	ant growth re	egulator	S	
	(4) All of the above	-	-	-		
34.	Which of the following flower crops i	is an indica		fluoride	pollution	?
	(1) Rose (2) Marigold	(3)	Gaillardia	(4)	Gladiolu	5
35.	Calyx splitting is a major disorder o					
	(1) Rose	(2)	Carnation			
	(3) Gerbera	(4)	Chrysanthe	emum		
36.	In plant propagation, auxin boos	-	-	-	various	auxins,
	$(1) MAA \qquad (2) IAA$	(3)	IBA	(4)	All of the	se
37.	Which plant growth regulator stimu	lates <del>r</del> anic	l closure of st	- omata ?		
•	(1) Auxins	(2)	Gibberellin			
	(3) Cytokinins	(4)	Abscisic aci			
<u> </u>	A prevention or delay of microb	ial decom		me of i		nles in
00.	preservation of food. It includes asep				file princi	
	(1) Keeping out microorganisms					
	(2) Removal of microorganisms					
	(3) Both (1) and (2)					
	(4) Killing of microorganisms by h	eat or radi	ation			
39.	(4) Killing of microorganisms by h		ation			
39.				ercent		
39.	(4) Killing of microorganisms by h Jam becomes sticky or gummy due t		ation High TSS p More pectin			
<u>39.</u> 40.	<ul> <li>(4) Killing of microorganisms by h</li> <li>Jam becomes sticky or gummy due t</li> <li>(1) Low TSS percent</li> </ul>	(2)	High TSS p			
	<ul> <li>(4) Killing of microorganisms by h</li> <li>Jam becomes sticky or gummy due t</li> <li>(1) Low TSS percent</li> <li>(3) Less pectin</li> </ul>	(2)	High TSS p		TSS	

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		philosophy of extension educat ects by means of education :	ion is to	develop the people in the following
	(1)	Economically	(2)	Socially
	(3)	Culturally	(4)	All of them
42.		ich of the following devices is cational objectives ?	s/are use	ed for measuring progress towards
	(1)	Value scale	(2)	Attitude scale
	(3)	Opinion polls	(4)	All of these
43.	POS	SDCORB view of administration f	unctions :	are developed by
	(1)	Gulick and Urwick	(2)	Luther Gulick
	(3)	H. Fayol	(4)	Berlo
44.		nmunication and motivation are in extension organization.	nportant	factors for maintaining in
	(1)	expertise	(2)	climate
	(3)	flexibility	(4)	leadership
45.	Whi	ch among the following is a funct	ional lead	ler ?
45.	Whi (1)	ch among the following is a function Doctor	ional lead (2)	ler ? Headmaster
<b>45.</b>				
45. 46.	(1) (3) — A r	Doctor Agriculture innovator 	(2) (4) ed by I	Headmaster
,	(1) (3) — A r	Doctor Agriculture innovator 	(2) (4) ed by I	Headmaster All of these TC provides relevant and real-time
,	(1) (3) A r info	Doctor Agriculture innovator network of promote rmation on weather, prices and ne	(2) (4) ed by I ews and n	Headmaster All of these FC provides relevant and real-time narketing channel for farm produce.
,	(1) (3) A r info (1) (3)	Doctor Agriculture innovator network of promote rmation on weather, prices and no e-choupal	(2) (4) ed by I ews and n (2) (4)	Headmaster All of these FC provides relevant and real-time narketing channel for farm produce. Gyan doot Expert system
46.	(1) (3) A r info (1) (3)	Doctor Agriculture innovator network of promote rmation on weather, prices and ne e-choupal Bhoomi project	(2) (4) ed by I ews and n (2) (4)	Headmaster All of these FC provides relevant and real-time narketing channel for farm produce. Gyan doot Expert system
46.	(1) (3) A r info (1) (3) In w	Doctor Agriculture innovator network of promote rmation on weather, prices and ne e-choupal Bhoomi project	(2) (4) ed by I ews and n (2) (4) unity for i	Headmaster All of these TC provides relevant and real-time narketing channel for farm produce. Gyan doot Expert system
46.	(1) (3) A r info (1) (3) In w (1) (3) Whi	Doctor Agriculture innovator network of promote rmation on weather, prices and no e-choupal Bhoomi project which communication does opportu Intrapersonal Vertical	(2) (4) ed by I7 ews and n (2) (4) unity for i (2) (4)	Headmaster All of these TC provides relevant and real-time narketing channel for farm produce. Gyan doot Expert system Immediate feedback occur ? Interpersonal
46. 47.	(1) (3) A r info (1) (3) In w (1) (3) Whi	Doctor Agriculture innovator network of promote rmation on weather, prices and ne e-choupal Bhoomi project which communication does opportu Intrapersonal Vertical	(2) (4) ed by I7 ews and n (2) (4) unity for i (2) (4)	Headmaster All of these C provides relevant and real-time narketing channel for farm produce. Gyan doot Expert system mmediate feedback occur ? Interpersonal Horizontal

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49.	Whi	ch among the followir	ng refers to character	stics of behaviour ?
	(1)	Sensing	(2)	Perceiving
	( <b>3</b> )	Doing	(4)	All of these
50.	A p	erson with	type of personality	is social, adaptable and interested
	peop	ole.		
	(1)	Introvert	(2)	Extrovert
	(3)	Ambivert	(4)	Genius
51.				inear decision criterion with exped
	retu (1)	irn and mean absolute TOBIT	e deviation for farm p (2)	lanning under uncertainty. LOGIT
	( <b>1</b> )	MOTAD	(2)	SURE
53.	The (1) (3)	Three-Tier system of Ashok Mehta Mahatma Gandhi	Flocal self government (2) (4)	t was recommended by Dr. B.R. Ambedkar Balwantrai Mehta
	~ ·			
54.	-	nion leaders are	acalo de la ferenciaio	
54.	a.	The persons whom p	people go to for opinio	
54.	-	The persons whom p The persons who ad The persons who a	vise followers on relig	ious matters.
54.	a. b. c.	The persons whom p The persons who ad	vise followers on relig act as legitimizers a	tious matters. nd influence the decision making
54.	a. b. c.	The persons whom p The persons who ad The persons who a opinion seekers.	vise followers on relig act as legitimizers a	tious matters. nd influence the decision making
54.	a. b. c. Whi	The persons whom p The persons who ad The persons who a opinion seekers. ich of the statements p	vise followers on relig act as legitimizers a given above is/are cor	tious matters. nd influence the decision making rect?
54.	a. b. c. Whi (1) (3)	The persons whom p The persons who ad The persons who a opinion seekers. ich of the statements p a only	vise followers on relig act as legitimizers a given above is/are cor (2) (4)	tious matters. nd influence the decision making rect? a and b All of the above
	a. b. c. Whi (1) (3)	The persons whom p The persons who ad The persons who a opinion seekers. ich of the statements p a only a and c	vise followers on relig act as legitimizers a given above is/are cor (2) (4)	tious matters. nd influence the decision making rect? a and b All of the above

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56.	If pa	If paper money is converted to standard money on demand it is called									
	(1)	Convertible pa	aper 1	noney	(2)	Token mone	ey				
	(3)	Standard mon	ey		(4)	None of the	se				
57.	The year	share of agric rs.	ultur	al sector in	national	income has	been _	over the			
	(1)	declining			(2)	increasing					
	(3)	constant			(4)	None of the	above				
58.	Und	ler which plan v	vas th	e "Kisan Cre	edit Card	Scheme" int	roduced	 ?			
	(1)	Sixth Five Yea	ar Pla	n	(2)	Seventh Fiv	ve Year I	Plan			
	(3)	Eighth Five Y	ear P	lan	(4)	Ninth Five	Year Pla	an			
<b>59.</b>	The	largest wheat p	rodu	cing state in	India wa	sdu	ring 201	 l4-15.			
	(1)	Punjab		t.	(2)	Maharashtr	a				
	(3)	Madhya Prade	esh		(4)	Uttar Prade	esh				
60.	The year	-	ultura	al Co-operati	ve marke	eting federati	on was o	established in the			
	(1)	1958	(2)	1959	(3)	1960	(4)	1961			
61.	The	first state ware	house	e was setup i	 n	· ·					
	(1)	Maharashtra	(2)	Bihar	(3)	Gujarat	(4)	Rajasthan			
62.	The year		erativ	ve Developme	ent Corpo	oration (NCD	C) was (	established in the			
	(1)	1960	(2)	1961	(3)	1962	(4)	1963			
63.		duction Possibil	ity C	urve is conca	ive to the	e origin when	n two pr	oducts substitute			
	(1)	Constant rate			(2)	Increasing 1	rate				
	(3)	Decreasing rat	te		(4)	Both (1) and	d (2)				
64.		which of the fo lined in the proc		φ w	-	ion function,	is the	maximum profit			
	(1)	Stage I	(2)	Stage II	(3)	Stage III	(4)	Stage I and II			
65.	Brea	ak even point of	a firi	n is where							
	(1)	TR > TC	(2)	TR = TC	(3)	TR < TC	(4)	None of these			
कच्च्य		 नाठी जागा / SPACI		ROUGH WOF	 RK						

A	11									
66.	Which is/are the "Milch Breed/s" of cattle in India ?									
	a.	Gir			b.	Tharparkar				
	c.	Khillari			d.	Amritmahal				
	Ans	wer Option	15 :							
	(1)	a only	(2)	c only	(3)	a and b only	(4)	c and d only		
67.	Eco	nomics of mi	lk produc	tion is imp	ortant for					
	a.	Reducing t	he cost a	nd increasi	ng the prof	ĩt				
	b.	Fixing sale	e rates of :	milk						
	c.	Culling of	animals							
	Whi	ich of the sta	atement/s	given abov	ve is/are co	rrect?				
	(1)	a only	(2)	b and c	(3)	a and c only	(4)	a, b and c		
68.	Buf	faloes wallow	w mainly	for which r	eason ?					
	(1)	To regulate	e body ter	nperature						
	(2)	To control	parasites							
	(3)	Both (1) ar	nd (2)							
	(4)	None of th	ese					``		
69.	Whi	ich bread of	poultry is	not classi	fied under	the American o	class ?			
	a.	Rhode Isla	nd Red							
	b.	Plymouth	Rock							
	c.	White Leg	horn							
	Ans	swer Optio	ns:							
	(1)	a only			(2)	b only				
	(3)	c only			(4)	None of the a	bove			
70.	Wha	at should the	e tempera	ture be du	ring the fi	st week of broc	oding o	hicks ?		
	(1)	97° F	(2)	95° F	(3)	90° F	. (4)	85° F		
71.	Wh	ich content o	of milk in	creases con	tinuously i	in the last three	e mont	ths of lactation ?		
	(1)	Fat			(2)	SNF				
	(3)	Both (1) ar	nd (2)		(4)	None of these	•			
कच्च्य	ा कामा र	माठी जागा / SF	ACE FOR	ROUGH W	ORK			P.T.O.		

- a. Coconut oil
- b. Animal fat
- c. Cottonseed oil

**Answer Options :** 

- (1) a only
- (2) a and c only
- (3) a and b only
- (4) a, b and c

73. The common thickness of aluminium foil for use in product packaging shall be

- (1) 0.012 to 0.015 mm
- (2) 0.1 to 0.25 mm
- (3) 1.0 to 1.5 mm
- (4) 0.026 to 0.040 mm
- 74. Milk is a poor source of which vitamin?
  - (1) Vitamin C
  - (2) Vitamin A
  - (3) Thiamin
  - (4) Riboflavin

75. Pasteurization of milk involves the following step/s :

- a. Heating
- b. Holding
- c. Cooling
- **Answer Options :**
- (1) a only (2) a and b
- (3) a and c (4) a, b and c

76. Which hazard(s) usually cause the greatest and broadest danger to consumers ?

- (1) Biological (2) Chemical
- (3) Biological and chemical (4) Physical

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77. Which of the following are unsaturated fatty acids ?

- (1) Capric and Caprylic
- (2) Lauric and Myristic
- (3) Linoleic and Linolenic
- (4) Palmitic and Stearic

78. Texture refers to those qualities of food that we can feel with the

- (1) Fingers
- (2) Tongue
- (3) Teeth
- (4) All of these

**79.** The most commercially successful form of aseptic packaging material/s which is/are sterilized, formed, filled and sealed in continuous operations is/are :

- (1) Paper
- (2) Plastic
- (3) Both (1) and (2)
- (4) None of these

80. The primary structure of a protein refers to

- a. The non-covalent bonds that hold the protein in a particular shape.
- b. Whether it has more  $\alpha$  helix than  $\beta$  sheets in the protein.
- c. Whether it is globular or fibrous.
- d. The linear sequence of amino acids covalently linked through amide bonds.

#### **Answer Options :**

- (1) a and b
- (2) a, b and c
- (3) c only
- (4) d only

कच्च्या कामासाठी जागा / SPACE FOR ROUGH WORK

81.	In fruits where the pericarp is fused with extra carpellary tissues and an external wall develops due to differentiation, into soft parenchyma, such fruit is called									
	(1)	Dry fruit			(2)	Fleshy fruit				
	(3)	Indehiscent f	ruit		(4)	Syncarpous	fruit			
82.	The fibre-like long, narrow, thick and lignified cells, usually pointed at both the ends, observed in crops namely jute, hemp, flax and coconut are known as									
	(1) Sclerenchyma					Collenchyma				
	(3) Parenchyma				(4)	Chlorenchyma				
83.	The evidence of paired chromosomes in diploid species was demonstrated by the following scientist :									
	(1) Morgan					Boveri and Sutton				
	(3) Watson and Crick					Creighton and McClintock				
84.	During the meiosis prophase-I stage, when chromosomes become shorter and thicke as synapsis continues it is termed as									
	(1)	Leptonema	(2)	Zygonema	(3)	Diplonema	(4)	Pachynema		
85.	Somatic numbers (2n) of chromosomes in Vicia faba are									
	(1)	12	(2)	24	(3)	48	(4)	46		
86.	Crossing over leading to recombination of linked genes was first observed by Belgian scientist									
	(1)	Janssen	(2)	Morgan	(3)	Muller	(4)	Lederberg		
87.	When the production of one of the two phenotypes requires the presence of dominan alleles of both the genes controlling the concerned trait in 9 : 7 manner, the gene action is termed as									
	(1) Dihybrid ratio gene interaction					Duplicate gene action				
	(3) Complementary gene interaction				(4)	Additive gene action				
88.	In small populations a random change in gene frequency due to sampling error i known as									
	(1)	Migration	(2)	Mutation	(3)	Evolution	(4)	Genetic drift		
 89.	Mating between individuals, who are phenotypically more similar than would b expected under random mating is called									
	(1) Genetic assortative mating					Genetic disassortative mating				
	(3)	Phenotypic a	ssortat	ive mating	(4)	Phenotypic of	lisassor	tative mating		

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Α				15				T10		
90.	In biparental cross, the mating design type North Carolina Design [NCD-1] is also called as									
	(1)	Nested design			(2)	Factorial des	ign			
	(3)	Line x tester d	lesign		(4)	Triple test cr	oss des	ign		
91.	of the	Zeltich proposed that glycolate is synthesized in low $CO_2$ and high $O_2$ concentr of the atmosphere, which is related with (1) Exosmosis (2) Endosmosis (3) Guttation (4) Imbibition								
92.	Under waterlogged conditions paddy is able to get adequate $O_2$ due to the following enzyme :									
	(1)	Peroxidase	(2)	Catalase	(3)	Invertase	(4)	Carboxylase		
93.	The ratio of reflected radiation to incident radiation when expressed in percentage is called									
	(1)	Refraction	(2)	Transmission	(3)	Albedo	(4)	Fluorescence		
<del>9</del> 4.	With which micronutrient is the "reclamation" deficiency in cereals and legumes related with?									
	(1)	Iron	(2)	Boron	(3)	Zinc	(4)	Copper		
95.	The management of forests both for production of wood and rearing domesticated animals is termed as									
	(1) Agri-silviculture system					(2) Sylvo-pastoral system				
	(3) Agro-sylvo-pastoral system					Multipurpose	e syster	n		
<del>9</del> 6.	When viable seeds are treated with 2,3,5-tetrazolium chloride, they develop colour.									
	(1)	blue	(2)	pink	(3)	intense red	(4)	red		
<b>97.</b>	Hone	Honeycomb method of selection of F2 plants was proposed by								
	(1)	Gardner	(2)	Fasoulas	(3)	Lonnquist	(4)	McGinnis		
<u>98</u> .	leave					_		af tips, curling of plant nutrient : Phosphrous		
				<u> </u>		<u> </u>				
99.		avin	n test (2)	is the bioassay Gibberellins	for th (3)	e following pla Cytokinin	nt horr (4)	none : Ethylene		
100.	If the succession is allowed to progress without disturbance, a stage is reached when no more improvement is possible in the soil and vegetation. This stage is termed as									
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## 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.

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(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

Pick out the correct word to fill in the blank :

Q. No. 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.  $(\mathbf{l})$ (2)प्र. क. 201. (4)अशा पद्धतीने प्रस्तुत प्रश्नपुस्तिकेतील प्रत्येक प्रश्नाचा तुमचा उत्तरक्रमांक हा तुम्हाला स्वतंत्ररीत्या पुरविलेल्या उत्तरपत्रिकेवरील त्या त्या प्रश्नक्रमांकासमोरील संबंधित वर्त्तळ पूर्णपणे छायांकित करून दाखवावा. ह्याकरिता फक्त काळ्या शाईचे बॉलपेन वापरावे, पेन्सिल वा शाईचे पेन वापरू नये.

## कच्च्या कामासाठी जागा/SPACE FOR ROUGH WORK

