प्रश्नपुस्तिका क्रमांक BOOKLET No.

वेळ : 1 (एक) तास

2018

संच क्र.

केंद्राची संकेताक्षरे

205001

पेपर क्र. – 2

प्रश्नपुस्तिका – II

एकूण प्रश्न : 100

एकूण गुण: 200

शेवटचा अंक

## सूचना

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 बदलून घ्यावी.

परीक्षा-क्रमांक

(2) आपला परीक्षा-क्रमांक ह्या चौकोनांत न विसरता बॉलपेनने लिहावा.

- (3) वर छापलेला प्रश्नपुस्तिका क्रमांक तुमच्या उत्तरपत्रिकेवर विशिष्ट जागी उत्तरपत्रिकेवरील सूचनेप्रमाणे न विसरता नम्द करावा.
- (3) वर छापलला अरगपुरताका अरगपुर प्राचन उपान कराजा । (4) या प्रश्नपुस्तिकेतील प्रत्येक प्रश्नाला 4 पर्यायी उत्तरे सुचिवली असून त्यांना 1, 2, 3 आणि 4 असे क्रमांक दिलेले आहेत. त्या क्रिक्टिक प्राचन करावा अशा प्रकारे 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
- (7) प्रस्तुत परीक्षेच्या उत्तरपत्रिकांचे मूल्यांकन करताना उमेदवाराच्या उत्तरपत्रिकेतील योग्य उत्तरांनाच गुण दिले जातील. तसेच ''उमेदवाराने वस्तुनिष्ठ बहुपर्यायी स्वरूपाच्या प्रश्नांची दिलेल्या चार उत्तरापैकी सर्वात योग्य उत्तरेच उत्तरपत्रिकेत नमूद करावीत. अन्यथा त्यांच्या उत्तरपत्रिकेत सोडविलेल्या प्रत्येक चार चुकीच्या उत्तरांसाठी एका प्रश्नाचे गुण वजा करण्यात येतील".

## ताकीढ

ह्या प्रश्नपत्रिकेसाठी आयोगाने विहित केलेली वेळ संपेपर्यंत ही प्रश्नपस्तिका 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 प्रविणे, तसेच प्रसिद्ध करणे हा गुन्हा असून अशी कृती करणाऱ्या व्यक्तीवर शासनाने जारी केलेल्या ''परीक्षांमध्ये होणाऱ्या गैरप्रकारांना प्रतिबंध करण्याबाबतचा अधिनियम-82'' यातील तरत्दीनुसार तसेच प्रचलित कायद्याच्या तरत्दीनुसार 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.

उधङ् Į¢. पर्यतेक्षकांच्या कच्च्या कामासाठी जागा/SPACE FOR ROUGH WORK

1.	A pair of mobile jointed appendages art are called antennae. They are wanting it		d with head in front of or between eyes				
	(1) Collembola	(2)	Diplura				
	(3) Protura	(4)	Coleoptera				
2.	Two lateral lobes of Hypopharynx i	n Apt	erygota, Larval Ephemeroptera and				
	(1) Ligula	(2)	Super Linguae				
	(3) Salivarium	(4)	Labrum Hypopharynx				
3.	The outermost layer of insect cuticle is	alled					
	(1) Exocuticle	(2)	Endocuticle				
	(3) Epicuticle	<b>(4</b> )	Procuticle				
<b>5.</b>	inclined ventrally and the mouthparts a  (1) Hypognathous  (3) Opisthognathous  The internal surface area of the insect sac-like diverticula known as gastric	(2) (4) t midgr	Prognathous  None of the above  at is increased by the development of				
	in number.	,	Elle cacca. In cocatoactics, and, are				
	(1) Two (2) Eight	(3)	Numerous (4) Absent				
6.	Which of the following is formed by the fused ganglia of the antennal segment of the head?						
	(1) Deutocerebrum	(2)	Tritocerebrum				
	(3) Protocerebrum	(4)	None of the above				
7.	Johnston's organ is a chordotonal organization.	gan lyi	ng in the segment of the				
	(1) First (2) Second	(3)	Third (4) Terminal				
			P.T.O.				

8.	Dire	ectorate of Plant Protection, Qua	arantine an	d Storage is located at					
	(1)	New Delhi	(2)	Faridabad, Haryana					
	(3)	Bengaluru	(4)	Chennai					
9.	A si	ilk produced by Antheraea mylitt	ta is called						
	(1)	Tasar silk	(2)	Muga silk					
	(3)	Pure Silk	(4)	Eri silk					
10.		stema Naturae' was published species of Indian insects by scien		758. This contains earlier record of					
	(1)	Carl Linnaeus	(2)	J.C. Fabricius					
	(3)	J.G. Koenig	(4)	Maxwell Lefroy					
11.	In India, the varieties of apple used in diseases resistant breeding against apple scale are								
	(1)	Sir Prize and Prima	(2)	Priscilla and Macfree					
	(3)	Coop-12 and Red Free	(4)	Nova Easygro and Liberty					
12.	Which statement from the following is <i>false</i> in relation to viroids?								
	(1)								
	<b>(2)</b>	It is naked circular molecule of	f infectious	nucleic acid.					
	(3)	3) The nucleic acid present is double standard DNA.							
	(4)	It causes diseases in plants.							
13.	From the following scientists, who were <b>not</b> responsible in prooving the role of fung								
	in t	he cause of plant disease.							
	a.	Micheli and Tillet							
	b.	Prevost and Anton de Bary							
	c.	Burrill and Smith							
		d. Woronin and Adolf Meyer							
		swer Options :							
	(1)	Only a and b	(2)	Only c and d					
	(3)	Only a and c	(4)	Only b and d					

14.	Which of the following pair is correct?								
		A		F	3				
	a.	Plasmogamy	I.	Union	of cytoplasmic content				
	b.	Oogonium	II.	Fruiti	ng body of fungus				
	c.	Oospore	III.	Asexu	al spore				
	d.	Spermatia	IV.	Male s	tructure				
	Ans	Answer Options:							
	(1)	Only a							
	<b>(2)</b>	Only b							
	(3)	Only a and d							
	(4)	Only c							
-     - 15.		From the following list of toxins produced by fungi, which group of toxin is host specific?							
	(1)	(1) Alternaric acid, Zinniol, Alternariol							
	(2)	2) Cercosporin, Fusaric acid, Oxalic acid							
	<b>(3</b> )	ATC-toxin, AB-toxin, AM-to	xin						
	(4)	(4) Tabtoxin, Tentoxin, Pyricularin							
16.	Idei	Identify the <i>mismatch</i> regarding penetration of pathogen.							
	(1)	(1) Stomata $\rightarrow Phytophthora\ infestans$							
	(2)	$\textbf{Lenticels} \rightarrow Spongospora\ subterranea$							
	(3)	Nectaries $\rightarrow Uromyces\ appendiculates$							
	(4)	Wounds → Penicillium expo	ınsum	ļ,					
17.		The adjuvant material in fungicides which reduces the surface tension of particles termed as							
	(1)	Wetting agents		(2)	Spreaders				
	(3)	Adhesives		(4)	Defloculating agents				
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18.	Which is the	repeating $s$	tage of brown	rust of wheat in	India?
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- a. Pycnial stage
- b. Aecial stage
- c. Uredial stage

#### **Answer Options:**

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

#### 19. An example of dsDNA virus is

- (1) Cauliflower mosaic virus
- (2) Wound tumor virus
- (3) Maize streak virus
- (4) Cowpea mosaic virus

#### 20. Identify plant pathogen on the basis of following characters:

- a. Sensitive to tetracycline antibiotics
- b. Transmission of leaf and plant hoppers
- c. Acquired by nymph
- d. Long incubation period

#### **Answer Options:**

- (1) Bacteria
- (2) Fungi
- (3) Phytoplasma
- (4) Virusoid

21.	If g	rape is grown under high humid condition, it is observed that					
	<b>(1)</b>	Vines put forth vegetative growth at the expense of fruiting					
	<b>(2)</b>	Berries do not ripe properly					
	(3)	Disease incidence is high					
	(4)	All of the above					
22.	Alla	habad Surkha is a variety of					
	(1)	Pomegranate					
	<b>(2)</b>	Guava					
	(3)	Grape					
<u> </u>	(4)	Mango					
23.	Bae	l fruit contains which of the following active ingredient?					
	(1)	Marmelosin					
	<b>(2</b> )	Cucurbitacin					
	(3)	Galactomanin					
	<b>(4</b> )	Quercetin					
24.	In which physiological disorder of citrus, the juice sacs become hard and elongated?						
	(1)	Greening					
	<b>(2</b> )	Decline					
	(3)	Granulation					
	<b>(4</b> )	None of the above					
25.	Which of the following is the hybrid variety of mandarin?						
	(1)	Coorg mandarin					
	<b>(2)</b>	Khasi mandarin					
	(3)	Kinnow mandarin					
	(4)	Nagpur mandarin					
<b>-</b>	 र स्वाधाः	माती जागा / SPACE FOR ROUGH WORK P.T.O.					

26.	Sylvia is the edible podded cultivar of								
	<b>(1)</b>	Broad bean	(2)	Gar	den pea				
	(3)	French bean	(4)	Lim	a bean				
27.	The	e most common method of prop	agation of b	er is					
	(1)	Chip budding							
	(2)	I or T budding							
	(3)	Micro budding							
	(4)	Shoot-tip grafting	,						
28.	Pota	ato is cool season crop and rec	quires						
	(1)	Long day condition with growth.	high temper	rature	for both	vegetative	and	tuber	
	(2)	Short day condition with low temperature for both vegetative and tuber growth.							
	(3)	Long day with high temperature for vegetative growth and short day with low temperature for tuber formation.							
	(4)	Day neutral for both vegeta	tive and tub	er grov	vth.			<del>_</del>	
29.	Which rose species is widely used for gulkand preparation?								
	(1)	Rosa eglanteria							
	<b>(2</b> )	$Rosa\ bourboniana$							
	<b>(3</b> )	$Rosa\ involucrata$							
	(4)	Rosa clinophylla							
30.	Pus	sa anupam is a variety of							
	(1)	Okra							
	<b>(2)</b>	Brinjal						•	
	(3)	Tomato							
	<b>(4)</b>	Onion							

31.	The	knobs of which crop are harvested by cutting the stem just below it?				
	(1)	Cabbage				
	<b>(2)</b>	Cauliflower				
	(3)	Knol-Khol				
	(4)	None of the above				
32.	Gold	denrod (Solidago) is commercially propagated by				
	(1)	Grafting				
	<b>(2)</b>	Budding				
	(3)	Suckers				
_	(4)	Air layers				
33.	In o	thrysanthemum, disbudding is a practice of removing immature flower bud to				
	(1)	Small number of large flowers				
	<b>(2)</b>	Large number of small flowers				
	(3)	Small number of large flowers or large number of small flowers				
	(4)	Delayed flowering				
34.	Corm dormancy in gladiolus is due to accumulation of					
	(1)	NAA				
	(2)	IBA				
	(3)	ABA				
	(4)	GA				
35.	Mos	st anthurium blooms are harvested at about maturity.				
	(1)	1/4				
	<b>(2)</b>	1/2				
	(3)	3/4				
	(4)	Full				
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36.	The hormone associated with induction of parthenocarpy is									
	(1)	GA3	(2)	AVG	(3)	BA	(4)	CCC		
<b>37.</b>		ucumber, foli oecious lines.	ar appli	cation of _	is	used for inc	lucing star	minate flowers in		
	<b>(1)</b>	GA3			(2)	Silver nit	rate			
	(3)	MAA			(4)	Both (1) a	nd (2)			
38.	Certain food products are subjected to cryogenic freezing, means freezing or products at very low temperature below									
	· (1)	(-) 0°C	(2)	(-) 30°C	(3)	(–) 60°C	(4)	(–) 80°C		
39.	The	total soluble	solids (7	SS) of frui	it squash sl	hould be	p	ercent.		
	(1)	10 - 20	(2)	20 - 30	(3)	30 - 40	(4)	40 – 50		
40.	Fru	it firmness is	measur	ed by		· · ·				
	<b>(1)</b>	Penetromete	er		(2)	Refracton	neter			
	(3)	Hardness te	ster		(4)	Tenderon	eter			
41.	In t	In the broadest sense judging of the value of something is called								
	<b>(1)</b>	Evaluation			<b>(2</b> )	Monitorin	g			
	(3)	Planning			(4)	Managem	ent			
42.	According to Ensminger (1962) the philosophy of extension can be expressed in the following lines:									
	a.									
	b.	Extension is	"learni	ng by doin	g".					
	c.	Extension is a two-way channel.								
	d.	Extension is	a conti	nuous, edu	cational pr	ocess.				
	Ans	swer Options	s :							
	<b>(1)</b>	Only a and l	b		(2)	Only b, c	and d			
	(3)	Only a			(4)	All of the	above			
कच्च्य	र कामार	गती जागा <i>।</i> SPA	CE END	POLICH W	UDK	- <del>-</del>	<del></del> _			

43.		process by which an individual behaviour is called	one's own efforts and abilities changes					
	(1)	Teaching	(2)	Learning				
	(3)	Communication	(4)	Social change				
44.		per the classification of exten		ning methods, the following are the				
	a.	Office call	b.	Farm and Home visit				
	c.	Leaflets	d.	Tours				
	Ans	swer Options :						
	<b>(1)</b>	Only a and b	(2)	Only c and d				
	(3)	Only c	(4)	All of the above				
45.	Which of the following determines group life?							
	(1)	We feeling	(2)	Feeling of unity				
	(3)	Common purpose	(4)	All of the above				
46.	Vill	Village Panchayat or Gram Panchayat is headed by						
	(1)	Gram Sevak	(2)	Gram Sabha				
	(3)	Sabhapati	<b>(4</b> )	Sarpanch				
47.	According to Allport (1935), It is a mental state of readiness, organised through experience, exerting a directive and dynamic influence upon the individual's response to all objects and situations with which it is related. It refers to							
	<b>(1)</b>	Interests	(2)	Emotions				
_	(3)	Wishes	(4)	Attitudes				
48.		Which of the following factors influence the selection of extension teaching methods and aids?						
	(1)	Audience	(2)	Teaching objectives				
	(3)	Subject matter	(4)	All of the above				
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49.	Which of the following is an example of instinct?								
	(1)	Inspiration from the teacher or followed by them to create love for		on worker and the method of teaching icular subject.					
	(2)	Love of a mother for her child, su	ckling o	f a baby.					
	(3)	Failure is likely to induce a gloor	ny, reser	ntful mood.					
	(4)	Child afraid of dog.							
50.		amily in which determination of ng the female line is	descent	and property inheritance take place					
	<b>(1</b> )	Patrilineal family	(2)	Matrilocal family					
	(3)	Matrilineal family	(4)	Patrilocal family					
51.	Which is a special type of communication, where the messages are concerned with new ideas?								
	(1)	Diffusion	(2)	Innovation					
	(3)	Learning	(4)	Teaching					
52.	The	The first Chairman of National Planning Committee was							
	<b>(1)</b>	Dr. Babasaheb Ambedkar	<b>(2)</b>	Dr. Rajendra Prasad					
	(3)	Pt. Jawaharlal Nehru	(4)	Mahatma Gandhi					
53.	The communication process according to Schramm (1961) involves								
	<b>(1</b> )	Communicator - Message - Char	nnel – Tr	reatment – Audience – Response					
	<b>(2)</b>	Source - Message - Channel - Receiver - Effects							
	(3)	Source – Encoder – Signal – Decoder – Destination							
	(4)	(4) Source - Transmitter - Signal - Receiver - Destination							
54.	The	first step in extension programme	plannin	g is					
	(1)	Collect facts	(2)	Identify problems					
	(3)	Develop plan of work	(4)	Decide an objective					
	र स्टापाउ	गती जागा / SPACE FOR POLICE WOR							

55.	Whi	ich of the following qual	lities is/are essentia	al for local leaders ?			
	a.	Mental ability	b.	Sense of purpose			
	c.	Love for people	d.	None of the above			
	Ans	swer Options :					
	(1)	Only a and b	(2)	Only a, b and c			
	(3)	Only c	(4)	Only d			
56.	The	amount of money avail	able with the priva	te individuals to spend is known a	- <u></u>		
	(1)	Disposable income	(2)	Personal income			
	(3)	Private income	(4)	National income			
<b>57.</b>	If Y	is a product (output) ar	nd X is an input, th	en MP is equal to			
	(1)	$\frac{X}{Y}$	(2)	Y			
	(1)	$\overline{\mathbf{Y}}$	(2)	$\frac{\mathbf{Y}}{\mathbf{X}}$			
	(3)	$\frac{\Delta X}{\Delta Y}$	(4)	$\frac{\Delta \mathbf{Y}}{\Delta \mathbf{X}}$			
	(0)	$\overline{\Delta \mathbf{Y}}$	(4)	$\overline{\Delta X}$			
58.	Mai futu		o the market situat	cion that is likely to prevail in the	near		
	(1)	News	(2)	Intelligence			
	(3)	Outlook	(4)	Agent			
59.	Those middlemen who take title to the product with a view to making a profit on it are called middlemen.						
	(1)	Facilitative	(2)	Merchant			
	(3)	Speculative	(4)	Agent			
60.	The	Wants-Efforts-	sums up the su	bject matter of economics.			
	(1)	Money	(2)	Satisfaction			
	(3)	Returns	(4)	None of the above			

61.		he 12 <sup>th</sup> Five Year Plan I outlays was	<del>'=</del>	age of agriculture and allied sectors to
	(1)	20.5		
	(2)	19.7		
	(3)	17:30		
	(4)	15.00		
62.	Con	sumer's is v	what we are prepare	ed to pay minus what we actually pay.
	(1)	Behaviour		
	(2)	Habit		
	(3)	Surplus		
	(4)	Willingness		
63.	The	quantity of produce th	at farmers actually	sell in the market is termed as
	(1)	Marketable surplus		
	<b>(2</b> )	Marketed surplus		
	(3)	Consumer's surplus		
	(4)	None of the above		
64.	As o	on July 2016, the total	number of members	s in the body of WTO were
	(1)	164	(2)	154
	(3)	174	(4)	184
65.		ler Uruguay Round (U orting and was classifi	· ·	94, price support was considered trade Box subsidies.
	(1)	Amber	. (2)	Blue
	(3)	Green	(4)	Yellow
			•	

74	4
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66.		nongst all the vitamins, vitamin ar uble vitamins and others are fat-soluble.	nd vitamin	are water
	(1)	A, B		
	(2)	B, C	•	
	(3)	C, D		
	(4)	D, E		
67.		rk stained rod like or rounded bodies visible u e cell during metaphase stage of cell division is o		nucleus of
	(1)	Gene		
	(2)	Chiasma		
	(3)	Allel		
	(4)	Chromosome		
68.	Whi	nich of the following sentences are related to Sa	ngamneri Goats ?	
	a.	They are found in Ahmadnagar district of Ma	harashtra.	
	b.	They are also known as Tellicherry.		
	c.	They are jet black in colour.		
	d.	The colour varies from white, black and brow	n with spots of other col	ours.
	Ans	swer Options :		
	(1)	Only a and b		
	(2)	Only b and c		
	(3)	Only a and d	·	
	(4)	Only a and c		
			<del> </del>	<del></del>

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74	4

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69.	The	commonly used energy and protein source in Poultry diets are and							
•	(1)	in our country.  Jowar, Fish meal							
	(2)								
	(3)	Oats, Groundnut meal							
	(4)	Rice, Rapeseed meal							
70.		nmercial layer birds are produced by, whereas, the commercial ler birds are produced by							
	(1)	Inbreeding, Mass selection							
	(2)	Outbreeding, Strain crossing							
	(3)	Cross breading, Strain crossing							
	(4)	Strain crossing, Cross breeding							
71.	Caprylic acid is								
	(1)	Essential amino acid							
	<b>(2)</b>	Saturated fatty acid							
	(3)	Unsaturated fatty acid							
	(4)	Fat soluble vitamin							
72.	The	milk is fermented into Dahi with the help of the following bacteria :							
	a.	Streptococcus thermophilus							
	b.	Lactobacillus bulgaricus							
	c.	Saccharomyces cerevisiae							
	d.	Aspergillus niger							
	Wh	ich of the options given above is/are correct?							
	(1)	Only a and b (2) Only b, c and d							
	(3)	Only a (4) Only a and d							

73.		ch of the following is the practice of breeding sire of a given breed to non-descript ale and their offspring for generation after generation?
	(1)	Criss crossing
	(2)	Grading up
	(3)	Top crossing
	(4)	Back crossing
74.	Very	good quality silage should have pH between
	(1)	3·5 to 4·2
	(2)	1.5 to 2.5
	(3)	5·5 to 6·5
	(4)	4.5 to 4.8
75.	The	acidity and pH of fresh milk varies with
	a.	Breed
	b.	Species
	c.	Stage of lactation
	d.	Health of the animal
	N/L:	the Calculations of the city of the company of the city of the company of the city of the
		ch of the options given above is/are correct?
	(1)	Only a
	(2)	Only b and c
	(3)	Only a and d
	(4)	All of the above

	O 1:		. ,
<b>76.</b>	Sodina	n nitrate	10 9/9n
	Doggan		19 67 611

- a. Anticaking agent
- b. Antioxidant
- c. Curing agent
- d. Colorant

#### **Answer Options:**

- (1) Only a
- (2) Only a and b
- (3) Only c
- (4) Only a and d
- 77. Substances added to fats or fat containing foods to retard the oxidative breakdown of fatty acids during storage are known as
  - a. Antifoaming agents
  - b. Antiageing agents
  - c. Antihazing agents
  - d. Antioxidants

### **Answer Options:**

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

78.	Whi	ich of the following is biodegradable plastic?	
	a.	Polypropylene	
	b.	Polyhydroxybutyrate	
	c.	HDPE	
	d.	LDPE	
	Ans	swer Options :	
	(1)	Only a	
	( <b>2</b> )	Only b	
	(3)	Only a and c	
	(4)	Only d	
79.		preservation of fruits and vegetable products, potassium metabisulphite is us	ed
	(1)	Sulphur dioxide	
	(2)	Carbon dioxide	
	(3)	Sodium benzoate	
	(4)	All of the above	
80.	Fru	its and vegetables turn brown when bruised or cut due to	
	(1)	Caramelization	
	(2)	Enzymatic Browning	
	(3)	Sulfating	
	(4)	Dehydration	
कच्च्य	कामार	साठी जागा / SPACE FOR ROUGH WORK P.T.	<u> </u>

81.				and female str tilization and			_	different times to
	(1)	Dichasium			(2)	Diastase		
	(3)	Dichogamy			(4)	Dicliny		
82.	—– The	interpretation	n of Me	ndelian geneti	cs is ba	sed on		·
	a.	Frequencies			b.	Assumption	ıs	
	c.	Genetic ratio	os		d.	Mean value	es	
	Ans	swer Options	3:					
	(1)	Only a and o	:		(2)	Only d		
	(3)	Only a and d	i		(4)	Only b		
83.	DN	A is a polymer	of		-			
	a.	Nucleotides			b.	Amino acid	s	
	c.	Nucleosides			d.	None of the	above	
	Ans	swer Options	3:					
	(1)	Only c			(2)	Only a and	b	
	(3)	Only a and o	<b>:</b>		(4)	Only a		
84.		s a sequence o		nucleotides t	hat can	code for one	e specifi	c amino acid in a
	(1)	$\operatorname{Codon}$	(2)	Anticodon	(3)	Cistron	(4)	Cofactor
85.		progeny of s	ingle h	omozygous pla	nnt of a	a self-pollina	ted spec	ies and variation
	(1)	Pureline her	ritable		(2)	Pureline no	n-herita	ble
	(3)	Multiline he	ritable		(4)	Multiline n	on-he <del>r</del> it	able
86.	Cer	tified foundati	ion seed	is the progen	y of bre	eder seed wit	h which	colour tag?
	(1)	White	(2)	Blue	(3)	Yellow	<b>(4</b> )	Brown
 कच्च्य	 ा कामार	 साठी जागा <i>।</i> SPA	CE FOR	ROUGH WORK				<u>"</u>

<b>Z11</b>	
rashtra.	
lant variety	

Α			21
87.	Mar	nga Bamboo is commercially c	ultivated in district of Mahar
	a.	Gondia	
	b.	Sindhndurg	
	c.	Nashik	
	d.	Osmanabad	
	Ans	swer Options :	
	<b>(1)</b>	Only a	
	(2)	Only b	
	(3)	Only a and b	
	(4)	All of the above	
88.	Plant variety should have under PPVFRA, 2001.		_ eligibility criteria for registration of p
	a.	Novel	•
	b.	Unifrom and Stable	
	c.	Distinct	
	d.	All of the above	
	Ans	swer Options :	
	(1)	Only a and b	
	(2)	Only b and c	
	(3)	Only c and d	
	<b>(4)</b>	Only d	

Catabolism a.

b. Anabolism

 ${\bf Metabolism}$ 

None of the above d.

**Answer Options:** 

(1) Only d

Only a and c (2)

(3) Only c

(4) Only b

90.	Light phase of photosynthesis takes place in						
	a.	Vacuole	b.	Grana			
	c.	Stroma	d.	None of the above			
	Answer Options:						
	<b>(1)</b>	Only a	(2)	Only d			
	(3)	Only b	(4)	Only b and c			
91.	A stimulated cell will often release calcium ions from its						
	a.	Nucleus	b.	Mitochondria			
	c.	Endoplasmic reticulum	d.	Lysosomes			
	Answer Options:						
	<b>(1)</b>	Only c	(2)	Only d			
	(3)	Only a and d	(4)	Only c and d			
92.	Which is the maintainer line used in production of hybrid seeds?						
	(1)	A line (2) R line	(3)	B line (4) P line			
93.	Which method is useful for recovering virus-free plants from virus-infected plants?						
	<b>(1</b> )	Embryo culture	(2)	Pollen culture			
	(3)	Root culture	(4)	Meristem culture			
94.	For humans, is a statistical tool used to test for possible linkage between two genetic loci.						
	a.	Chi square	b.	Lod score method			
	c.	Student test	d.	ANOVA			
	Answer Options:						
	(1)	Only a and c	(2)	Only b			
	(3)	Only c and b	(4)	Only d			
95.	The stomata closed in water stressed plants due to accumulation of ABA is in						
	(1)	Mesophyll cells	(2)	Subsidiary cells			
	(3)	Guard cells	(4)	All of the above			
		<del></del>					

96.	The development of embryo without fertilization is known as						
	a.	Apogamy	b.	Adnogamy			
	c.	Parthenogenesis	d.	Apospory			
	Answer Options:						
	(1)	Only a and c	(2)	Only b			
	(3)	Only a	(4)	Only a, c and d			
97.	In photosynthesis, dark reaction or Blackman's reaction is						
	(1) Enzymatic and occurs in the absence of light						
	(2) Non enzymatic and occurs in the absence of light						
	(3)	3) Enzymatic and independent of light					
	(4)	Non-enzymatic and occurs in the presence of light					
98.	Desirable linkage can be broken more effectively by						
	a.	Pedigree method	b.	Diallel selective mating			
	c.	Backcross method	d.	Bulk method			
	Answer Options:						
	(1)	Only b	(2)	Only a and c			
	(3)	Only d	(4)	Only c			
99.	Recalcitrant seeds are also known as						
	(1)	Desiccation tolerant seeds					
	(2)	Desiccation sensitive seeds					
	(3)	Orthodox seeds					
	(4)	Long lived seeds					
100.	is a vector of rice grassy stunt virus.						
	(1)	Nilaparvata lugens	(2)	Leptocorisa acuta			
	(3)	Stenchaetothrips biformis	(4)	$Cnaphalocrosis\ medinalis$			

# 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 स्वत:बरोबर 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

(1)

(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.क. 201.

(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 बॉलपेन वापरावे, पेन्सिल वा शाईचे पेन वापरू नये.

कच्च्या कामासाठी जागा/SPACE FOR ROUGH WORK