# मग्राष्ट्र कुन्नी स्थेना मुख्य परीक्षा 2092



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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 बदलुन घ्यावी.

परीक्षा-क्रमांक शेवटचा अंक केंद्राची संकेताक्षरे

आपला परीक्षा-क्रमांक ह्या चौकोनांत न विसरता बॉलपेनने लिहावा

- (3) वर छापलेला प्रश्नपुस्तिका क्रमांक तुमच्या उत्तरपत्रिकेवर विशिष्ट जागी उत्तरपत्रिकेवरील सूचनेप्रमाणे **न विसरता नमूद करावा**.
- 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 पढील प्रश्नांकडे 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) प्रस्तृत परीक्षेच्या उत्तरपत्रिकांचे मूल्यांकन करताना उमेदवाराच्या उत्तरपत्रिकेतील योग्य उत्तरांनाच गुण दिले जातील. तसेच ''उमेदवाराने वस्तुनिष्ठ बहुपर्यायी स्वरूपाच्या प्रश्नांची दिलेल्या चार उत्तरांपैकी सर्वात योग्य उत्तरेच उत्तरपत्रिकेत नमूद करावीत. अन्यथा त्यांच्या उत्तरपत्रिकेत सोडविलेल्या प्रत्येक चार चुकीच्या उत्तरांसाठी एका प्रश्नांचे 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.

पढील सूचना प्रश्नपस्तिकेच्या अंतिम पृष्ठावर

न्द्र py 38 सील 40 सूचनेविना पर्यवेक्षकांच्या अधाः अधाः अध्याः प्रशासः अधिः

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कच्चा कामासाठी जागा /SPACE FOR ROSSERWORK ६०

	, .	• •				٠.			115.7 Lps				
					3				THO				
	Wha	t is the drainag	e of 1 h	a cm wate	r (10 <sup>5</sup> 1	itres)	in 24 hrs equ	al to ?					
	(1)	, 0			`	,	11.57 Lps	(4)	115.7 Lps				
•		t are the small f					vals parallel t	o the slop	e of the land for				
	(1)	Bedding			(2)		d smoothing						
	(3)	Random field	ditch n	nethod	(4)	Para	llel field ditcl	n system					
		considered yie faction while co					o failure, as fi	eld indica	tors for farmer'				
	(1)	Gomez	(2)	Hargroov	/e	(3)	Reddy	(4)	Prasad				
	Whi	ch of the follow	ing cor	nponents d	oes a	water	harvesting sy	stem hav	e ?				
	(1)	Catchment ar	ea		(2)	Stor	age facility						
	(3)	Command are	ea		(4)	(1),	(2) and (3) ab	ove					
	What happens if crop seed is sown very deep in the soil ?												
	(1)	Early germina	ition.										
	(2)												
	(3) The young seedlings may not be able to push their shoots above the thick soil layer.												
	(4)	Vigorous seed	lings.										
	Which weed is associated with tobacco crop?												
	(1)	Striga densiflo	ra		(2)	Phal	aris minor						
	(3)	Solanum nigru	lm		(4)	Oral	panche indica						
	Whi	ch of the follow	ing sta	tements is	applica	able fo	r rainfed farr	ning ?	7,000				
	(1)	Cultivation of	crops	in areas rec	eiving	less t	han 750 mm	rainfall pe	er annum.				
	(2)	Dry spells are	most c	ommon an	d crop	failuı	es are more f	requent.					
	(3)	Cultivation of	crops	where dry	spells	occur	but crop failu	res are le	ss frequent.				
	(4)	Cultivation of	crops	where crop	failur	es are	rare and drai	inage is th	ne problem.				
•		which of the fo	ollowin	g crops th	inning	g and	earthing up	is neces	sary for highe				
	(1)	Sugarcane	(2)	Sugarbee		(3)	Potato	(4)	Sweet Potato				

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DO	2			4			•					
9.		gest a suitable crop to 15 <sup>th</sup> July) in Mahara		ngent c	rop p	lanning ui	nder la	ate ons	et of monso Groundnu			
	(1)	Green gram (2)	Pigeon p	ea	(3)	Black gra	am	(4)	Groundnu			
10.	Hov	v does the soil moistu	re move in a	an area	?			_				
	(1)	High tension to area	a of low ten	sion.								
	(2)	Higher elevation to	lower eleva	tion.								
	(3)	Low tension to area	of high ten	sion.								
	(4)	Lower elevation to	higher eleva	ition.								
11.	Wha	nt variety of pigeon p	ea is recomi	mendec	d for N	Maharashti	ra ?					
	(1)	BM - 4 (2)	BDU - 1		(3)	BSMR -	736	(4)	TAU - 1			
2.	Wha	at is the role of an Ag	ronomist in	Agricu	lture '	?						
	(1)	Coordinator of diffe	erent subject	matte	r speci	ialists.						
	(2)	Convenor										
	(3)	Producer of maximi	um yield wi	th max	imum	cost						
	(4)	None of the above										
3.		What should be the right choice of base and inter crops on medium deep soils in regions with uni-modal rainfall pattern?										
	(1)	The base crop should	ld be of sho	rter du	ration	than the o	compa	nion cı	op.			
	(2)	The base crop should	ld be of long	ger dur	ation	than the co	ompan	ion cro	op.			
	(3)	The choice of crop should coincide wit			at the	peak grow	vth pe	riod of	both the cre			
	(4)	None of the above										
14.	In or	ur country, which sur s ?	face method	d of irri	igation	n is the mo	ost wic	dely pr	actised for fi			
	(1)	Check basin method	d	(2)	Basin	n method						
		Border strip method	l	(4)	Wild	lflooding						
	(3)	border strip metrioc		. ,		· moouning						
15.		ch of the following as					ites ?					
15.		<u> </u>	e the major	sunflo	wer g		ites ?					
15.	Whi	ch of the following as	re the major shtra, Andh	sunflo	wer g		ites ?					
15.	Whi	ch of the following as Karnataka, Mahara	re the major shtra, Andh Pradesh, F	sunflo ra Pra unjab.	wer gr desh.		ites ?					

									S
									(Ide
A					5				THE
6.		it type of droug nal ?	tht is it	in which the	e actu	al rair	nfall falls shor	t below 7	5 percent of
	(1)	Agricultural o	trought		(2)	Mete	eorological dr	ought	
	(3)	Hydrological	drought	t	(4)	Con	tingent droug	tht	
7.	Mod	lern concept of	tillage	includes					1. ( Add Wiles to Miles V v v v v v v v v v v v v v v v v v v
	(1)	Minimum tilla	age		(2)	Zero	tillage		
	(3)	Conservation	tillage		(4)	(1), (	(2) and (3) abo	ove	
18.	At v	vhat depth, the	seeds o	f semi dwai	rf vari	eties o	of wheat crop	could be	sown ?
	(1)	2 - 3 cm	(2)	5 - 6 cm		(3)	7 - 8 cm	(4)	8 - 9 cm
19.	Whi	ch of the follow	ing is a	nother term	n for t	he Su	stainable Agri	culture ?	
	(1)	Alternative fa	rming		(2)	Eco-	farming		
	(3)	Permeacultur	e		(4)	(1),	(2) and (3) abo	ove	
20.	Wha	nt is the advanta	age of a	conservatio	on tilla	age ?			
	(1)	Reduced tillag	ge mach	inery maxii	mizes	soil c	ompaction.		
	(2)	Low infiltration	on of w	ater and hiş	gh eva	aporat	ion.		
	(3)	Low risk of p							
	(4)	Surface crop o	cover re	duces soil e	rosior	1. 			
21.	Whi	ch process is re	sponsib	le for the lo	ss of a	about	60 to 75 perce	ent of the	rainfall ?
	(1)	Evaporation			(2)	Trar	nspiration		
	(3)	Evapotranspi	ration		(4)	Perc	olation		
22.	Wh	ich of the follow	wing is	an example	of a f		0	nspirant ?	?
	(1)	Atrazine			(2)		oileaf		
	(3)	Kaolin			(4)	Phei —	nylmercuric a	cetate	
23.	Whi	ch crop is suita	ble for c	oil as well as	s fibre	purp	ose ?		
	(1)	Sunflower	(2)	Mustard		(3)	Linseed	(4)	Safflower
24		ut how many re	oot slips	or stem cu	ttings	are re	equired for pla	inting nap	oier grass in on
24.	hect	are area ?							

							1	FE
002	<u>,</u>			6				days
		ution are a disconnections.			a A a	mi audtuma 2		T.
25.	(1)	at is a period of medium Few hours to one day	0	(2)	_	griculture ? lours to less than	three	days
	(3)	3 to 10 days		(4)		e than 10 days	ridee	auys
6.	Amo	ong the following, which	ch is a bio-he	rbicio	de ?			
	(1)	Oryzalin (2)	Lactofen		(3)	Tripose	(4)	Metribuzin
7.	Wha	at is the oil and protein	content of g	roun	dnut	kernel ?		
	(1)	50% oil and 18 - 20%	•	(2)		oil and 26% pro		
	(3)	33 - 47% oil and 36%	protein	(4)	24 -	36% oil and 40 -	45% p	orotein
28.	In w	vinter, what will be the	temperature	at e	quato	rial tropopause ?		
	(1)	$-60^{\circ}$ C (2)	−70°C		(3)	−80°C	(4)	−90°C
9.	In w	hich crop, flower/inflo	orescence is c	alled	as a	rrow ?		
	(1)	Flower primodia init	ation in whe	at.				
	(2)	Flower of Maize.						
	(3)	Flower of Sorghum.						
	(4)	Flower/inflorescence	of sugarcane	e. ——				
0.	Wha	at is normal lapse rate :	n Troposphe	re ?				
	(1)	6.5° F/1000 ft		(2)		F/1000 ft		
	(2)	3.6° F/1000 ft		(4)	$4  \Omega^{\circ}$	E /1000 ft		
	(3)	3.0 T/ 1000 R		(1)		F/1000 ft		
1.	Whi	ch of the following age	ncies has bee	n ent	truste	d by the Govern		
1.	Whi task	ch of the following age of preparation of a fea	ncies has bee sibility repor	n ent	truste nterli	d by the Govern		
1.	Whi task (1)	ch of the following age of preparation of a fea National Water Deve	ncies has bee sibility report	n ent	truste nterli	d by the Govern		
1.	Whitask (1)	ch of the following age of preparation of a fea National Water Deve Irrigation Commissio	ncies has bee sibility report lopment Age n of India	n ent t of in	truste nterli	d by the Govern		
1.	Whi task (1) (2) (3)	ch of the following age of preparation of a fea National Water Deve Irrigation Commissio Central Ground Wate	ncies has bee sibility report lopment Age n of India er Board (CG	n ent t of in	truste nterli	d by the Govern		
1.	Whitask (1)	ch of the following age of preparation of a fea National Water Deve Irrigation Commissio	ncies has bee sibility report lopment Age n of India er Board (CG	n ent t of in	truste nterli	d by the Govern		
	Whitask (1) (2) (3) (4)	ch of the following age of preparation of a fea National Water Deve Irrigation Commissio Central Ground Wate National Water Boar	ncies has bee sibility report dopment Age n of India er Board (CG d	en ent t of in ency (WB)	truste nterlii (NWI	d by the Governmenting of rivers in DA)	India	?
	Whi task (1) (2) (3) (4)	ch of the following age of preparation of a fea National Water Deve Irrigation Commissio Central Ground Wate National Water Boar	ncies has bee sibility report lopment Age n of India er Board (CG	en ent t of in ency (WB)	truste nterlii (NWI	d by the Govern nking of rivers in DA)	India	
2.	Whitask (1) (2) (3) (4) Amo (1)	ch of the following age of preparation of a fea National Water Deve Irrigation Commissio Central Ground Wate National Water Boar	ncies has bee sibility report flopment Age n of India er Board (CG d h is a compo	en ent t of in ency (WB)	trustenterlin (NWI) of fan (3)	d by the Governmenting of rivers in DA)  rming system?  Coir work (4)	India	?
32.	Whitask (1) (2) (3) (4) Amo (1)	ch of the following age of preparation of a feat National Water Deve Irrigation Commission Central Ground Water National Water Boar ong the following which Ducker (2)	ncies has bee sibility report flopment Age n of India er Board (CG d h is a compo	en ent t of in ency (WB)	of far (3) Agrica	d by the Governmenting of rivers in DA)  rming system?  Coir work (4)	(1), (	? (2) and (3) above

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								Ì	g capacity
DO2	-				8				30
42.	The	maximum water	vapoi	ar movemen	it in s	oil occ	curs when the	soil is :	
	(1)	at field capacit	y		(2)	at m	naximum wate:	r holdin	g capacity
	(3)	at just below th	ne wilt	ing point	(4)	at w	ilting point		
43.		ong the major pla e least variable a			h of t	the fol			
	(1)	Phosphorus	(2)	Potassium	L	(3)	Magnesium	(4)	Sulphur
44.	Whi	ch is/are predo	minen	t ionic specie	es of	phosp	hate in soil at	pH 7.2 ?	
	(1)	$H_2PO_4^-$			(2)	HPC	$\mathcal{D}_{4}^{=}$		
	(3)	$H_2PO_4^-$ and $H_2PO_4^-$	IPO <sub>4</sub>		(4)	PO <sub>4</sub>	<b>E</b>		
45.		ch of the following the contract of the following the contract of the contract	_		led to	prepa	are a mixed fer	tilizer w	ith good drilling
	(1)	Coal ash	(2)	Lime stone	е	(3)	Peat	(4)	Dolomite
46.	The	is th	at wat	ter which lie	es bet	ween	wilting coeffic	ient and	field capacity.
	(1)	available water			(2)	una	vailable water		
	(3)	superfluous wa	ater		(4)	none	e of these		
 47.	Whi	ch of the followi	ng org	anic manur	es coi	ntains	highest amour	nt of niti	ogen ?
	(1)	Neem cake			(2)	Cast	or cake		
	(3)	Linseed cake			(4)	Gro	undnut cake		
48.	Fill	in the blank corre	ectly.						
		en gypsum is useo kali soils.	d as a 1	eclaiming ag	gent,	calciur	n replaces the $\epsilon$	exchange	eable
	(1)	Boron	(2)	Magnesiu	m	(3)	Sodium	(4)	Potassium
49.		ch of the following organic substan	~	ne process of	f deco	mpos	ition of organic	matter	and synthesis o
	(1)	Horizonation	(2)	Eluviation	l	(3)	Humification	(4)	Illuviation
<del></del> 50.	Whi	ch of the followi	ng cro	ps is a low s	salt to		crop ?		
	(1)	Cotton	(2)	Wheat		(3)	Soyabean	(4)	Maize

(1) Iron

(4)

Sulphur

Boron

								13	ila				
DO	2				10				e most rap				
60.		ich of the fol omposed ?	lowing	constitu	ents of	orga	nic matter in so	oil are	e most rap				
	(1) (3)	Celluloses ar Carbohydrate			oteins	(2) (4)	Fats, waxes and Lignins	d resir	ns				
61.		Fill in the blank appropriately.  In seed metering mechanism, vertical plate is provided with radially projected											
	arm	s, which drop	the large	r seeds li	ke potat	o in f	urrows with the	help o	f suitable jaws.				
	(1)	fluted feed ty	•		(2)		feed mechanism						
	(3)	picker wheel	type		(4)	inte	rnal double run t	ype					
62.	Wha	at is the Interna	al double	run tvne	seed m	eterin	ng device suitable	for ?					
02.	(1)	Large size se		run type	(2)		all size seed	101 .					
	(3)	Sugar beat se			(4)		n (1) and (2)						
63.		our stroke eng ikshaft.	gine, one	e power	stroke is	s gen	erated after		_ revolution of				
	(1)	Each	(2)	Two		(3)	Four	(4)	Half				
64.	The	power develo	ped by	the engin	e and is	avai	lable at the end o	of crar	nkshaft is called				
	(1)	IHP	(2)	ВНР		(3)	DBHP	(4)	FHP				
65.	Wha		rd end o	f cutting	edge of	share	which actually p	enetra	ites into the soil				
	(1)	Gunnel	(2)	Share p	oint	(3)	Wing of share	(4)	Cleavage				
66.	On	what factors th	nreshing	efficiency	of a th	reshei	depends ?						
	(a)	Cylinder cor	U	•	(b)		e of crop						
	(c)	Weather con	ditions		(d)	Moi	sture content of o	crop	•				
	(1)	(a) and (b)			(2)	(a),	(b) and (c)						
	(3)	(a), (b) and (	d)		(4)	All	of these						
67.		at is the perpe n of plough ca		distance	e betwee	en po	int of share and	lower	position of the				
	(1)	Throat clear			(2)	Hor	rizontal clearance						
	(3)	Vertical clea	rance		(4)	Sha	re point clearanc	P					

P.T.O.

			T	c mi accp	oms,	WILCH	of the equ	anons	is use	d?
	(1)	Airy equation			(2)	Ran	kine's equa	ation		1
	(3)	Janssen's equati	ion		(4)	All	of the abov	e		·
76.	Wha	at is the order of o	compon	ents in va	apour	compi	ression refi	igerati	on sys	stem ?
	(1)	Compressor - e	vaporato	or - conde	ensor -	expa	nsion valv	e.		
	(2)	Compressor - e	xpansio	n valve -	evapo	rator ·	- condenso	r.		
	(3)	Compressor - co	ondenso	r - expan	sion v	alve -	evaporato	r.		
	(4)	Compressor - co	ondenso	r - evapo	rator -	expa	nsion valv	e.		
77.	Fill i	in the blank appr	opriatel	y.					_	
					narge	point	which cre	ates a	vacu	um or negative
	•	sure within the r			(2)					
	(1)	Specific gravity	^		(2)	•	irator			
	(3)	Indented cylind	ler sepa: 	rator	(4)	Spir	al separato	or 		
78.	_	is the mo	st comn	non type	of hea	t excl	nanger use	d in H	TST P	asteurization.
	(1)	Tubular type	(2) l	Barrel typ	e	(3)	Plate typ	e (4)	Flat	surface type
<del></del>	The	indented cylinde	r separa	itors, sepa	arate t	he ma	nterials on	the ba	sis of	
	(1)	Relative lengths	s (2)	Roundnes	SS	(3)	Density	(4)	Non	e of the above
		vinter season, due	e to moi	sture mig	gration	spoil	age of gra	ins occ	urs at	the
	(1)	bottom	(2) t	юр		(3)	centre		(4)	wall side
81.	E;11 :	in the blanks app	ropriato	1,,						
01.		elongated waters	•	-			hifurcation	ratio	and w	vill result into a
										ed of the same
	area	•	•					•		
	(1)	higher, lower			(2)	lowe	er, higher			
	(3)	same, same			(4)	none	e of the abo	ove		
82.		at is the peak run e of concentration								
		ectively?								

								-										
								`	TE									
									Es									
									13									
A					13				D									
3.	Wha	nt is the principl	e of cha	ain surveyi	ng ?													
	(1)	Radiation	(2)	Intersecti	on	(3)	Resection	(4)	Triangulation									
84.		at is the shape in of watershed 5				ng len	gth along the n	nain stre	am 1000 ms an									
	(1)	0.2	(2)	20.0		(3)	200.0	(4)	5000									
35.		igh volume spr	aying,	total volur	ne of	spray	liquid applied	l amoun	t to									
		s per ha.	(2)	F 200		(2)	200 400	(4)	> 400									
	(1)	< 5	(2)	5 - 200		(3)	200 - 400	(4)	> 400									
	Y 4 71	nt assumptions a	re vali	d for deter	mining	peak	runoff rate by	rational	method ?									
6.	What assumptions are valid for determining peak runoff rate by rational method?  (a) Rainfall has occurred with uniform intensity for the duration at least equal to time of																	
6.	(a)	~	curred	with unito:	m me	concentration of the catchment area.												
6.		Rainfall has oc				riorcy			1									
6.		Rainfall has occoncentration The infiltration	of the n rate o	catchment of the soils	area. in wate	ershed	l is constant.		1									
6.	(a) (b) (c)	Rainfall has occoncentration The infiltration The rainfall in	of the n rate o tensity	catchment of the soils : is uniform	area. in wate throu	ershed ghout	l is constant. the catchment		1									
6.	(a) (b) (c) (d)	Rainfall has occoncentration The infiltration The rainfall in The initial soil	of the n rate o tensity	catchment of the soils : is uniform	area. in wate throu rm in t	ershed ghout the wa	l is constant. the catchment atershed.		1									
6.	(a) (b) (c) (d) (1)	Rainfall has occoncentration The infiltration The rainfall in The initial soil (a) and (c)	of the n rate o tensity	catchment of the soils : is uniform	area. in wate throu rm in t (2)	ershed ghout the wa (a) a	d is constant. the catchment atershed. and (b)											
6.	(a) (b) (c) (d)	Rainfall has occoncentration The infiltration The rainfall in The initial soil	of the n rate o tensity	catchment of the soils : is uniform	area. in wate throu rm in t	ershed ghout the wa (a) a	l is constant. the catchment atershed.		1									
	(a) (b) (c) (d) (1) (3)	Rainfall has occoncentration The infiltration The rainfall in The initial soil (a) and (c) (b) and (d)	of the n rate of tensity moistu	catchment of the soils is uniform are is unifor	area. in wate throu rm in t (2) (4)	ershed ghout the wa (a) a (a) a	l is constant. the catchment atershed. and (b) and (d)	:.										
	(a) (b) (c) (d) (1) (3)	Rainfall has occoncentration The infiltration The rainfall in The initial soil (a) and (c) (b) and (d)	of the n rate of tensity moistu	catchment of the soils is uniform are is uniform are is uniform	area. in wate throu rm in t (2) (4) rformi	ershed ghout the wa (a) a (a) a	l is constant. the catchment atershed. and (b) and (d)	:.										
	(a) (b) (c) (d) (1) (3)	Rainfall has occoncentration The infiltration The rainfall in The initial soil (a) and (c) (b) and (d)	of the n rate of tensity moisturnatrol stroicipal specification	catchment of the soils is uniform are is uniform ructure, per	area. in wate throu rm in t (2) (4) rformi	ershed ghout the wa (a) a (a) a	l is constant. the catchment atershed. and (b) and (d)	:.										
	(a) (b) (c) (d) (1) (3) Therefore (a)	Rainfall has occoncentration The infiltration The rainfall in The initial soil (a) and (c) (b) and (d)  re is a gulley con Used as a prin	of the n rate of tensity moisturentrol structurentrol structurentr	catchment of the soils is uniform are is unifor ructure, per pillway in o	area. in wate throu rm in t (2) (4) rformin	ershed ghout he wa (a) a (a) a ng fol	l is constant. the catchment atershed. and (b) and (d)	:										
	(a) (b) (c) (d) (1) (3) Ther (a) (b)	Rainfall has occoncentration The infiltration The rainfall in The initial soil (a) and (c) (b) and (d)  re is a gulley con Used as a prin It stabilizes gu	of the n rate of tensity moisturnatrol stracipal spalley gradend of	catchment of the soils is uniform are is uniform ructure, per pillway in ora ade water disp	area. in wate throu rm in t (2) (4)  rformic case of	ershed ghout he wa (a) a (a) a ng fol	l is constant. the catchment atershed. and (b) and (d)	:										
	(a) (b) (c) (d) (1) (3)  Ther (a) (b) (c) (d)	Rainfall has occoncentration The infiltration The rainfall in The initial soil (a) and (c) (b) and (d)  re is a gulley con Used as a prin It stabilizes gu Used at lower	of the n rate of tensity moistured strong methods and of vert in f	catchment of the soils is uniform are is uniform ructure, per pillway in ora ade water disp	area. in wate throu rm in t (2) (4)  rformic case of	ershed ghout he wa (a) a (a) a ng fol	l is constant. the catchment atershed. and (b) and (d)	:										
	(a) (b) (c) (d) (1) (3)  Ther (a) (b) (c) (d)	Rainfall has occoncentration The infiltration The rainfall in The initial soil (a) and (c) (b) and (d)  re is a gulley con Used as a prin It stabilizes gu Used at lower Used as a culv	of the n rate of tensity moistured strong strong graden of vert in finis?	catchment of the soils is uniform are is uniform ructure, per pillway in ora ade water disp	area. in wate throu rm in t (2) (4)  rformic case of	ershed ghout he wa (a) a (a) a ng fol farm	l is constant. the catchment atershed. and (b) and (d)	ns :										
	(a) (b) (c) (d) (1) (3)  Then (a) (b) (c) (d) Whi	Rainfall has occoncentration The infiltration The rainfall in The initial soil (a) and (c) (b) and (d)  The initial soil (a) and (d)  The initial soil (b) and (d)	of the n rate of tensity moistured strong the control strong to the control strong the co	ructure, per pillway in cade water disp	area. in wate throu rm in t (2) (4)  rformin case of	ershed ghout he wa (a) a (a) a ng foll farm ystem	l is constant. the catchment atershed. and (b) and (d) lowing function ponds	ns :										
37.	(a) (b) (c) (d) (1) (3)  Ther (a) (b) (c) (d) Whi (1) (3)	Rainfall has occoncentration The infiltration The rainfall in The initial soil (a) and (c) (b) and (d)  re is a gulley con Used as a prin It stabilizes gu Used at lower Used as a culv ich structure is t Chute spillwa	of the n rate of tensity moistured straction of the end of vert in facility gradient of this?	ructure, per pillway in cade water disponents roads	area. in water through through the second se	ershed ghout the wa (a) a (a) a ng foll farm ystem Drog Grad	l is constant. the catchment atershed. and (b) and (d) lowing function ponds  p inlet spillway ded bund	ns:										
7.	(a) (b) (c) (d) (1) (3)  Ther (a) (b) (c) (d) Whit (1) (3)	Rainfall has occoncentration The infiltration The rainfall in The initial soil (a) and (c) (b) and (d)  The initial soil (a) and (c) (b) and (d)  The initial soil (a) and (c) (b) and (d)  The initial soil (a) and (c) (b) and (d)	of the n rate of tensity moistured straction of the end of vert in finite?	ructure, per pillway in cade water disponents roads	area. in water through through the second se	ershed ghout the wa (a) a (a) a ng foll farm ystem Drog Grad	l is constant. the catchment atershed. and (b) and (d) lowing function ponds  p inlet spillway ded bund	ns:										
7.	(a) (b) (c) (d) (1) (3)  Ther (a) (b) (c) (d) Whit (1) (3)	Rainfall has occoncentration The infiltration The rainfall in The initial soil (a) and (c) (b) and (d)  The initial soil (a) and (c) (b) and (d)  The initial soil (a) and (c) (b) and (d)  The initial soil (a) and (c) (b) and (d)  The initial soil (a) and (c) (b) and (d)  The initial soil (a) and (c) (b) and (d)  The initial soil (a) and (c) (b) and (d)  The initial soil (b) and (c)  The initial soil (c) and (d)  The initial soil (a) and (c) (b) and (c) (c) and (d)  The initial soil (a) and (c) (b) and (d)  The initial soil (a) and (c) (b) and (d)  The initial soil (a) and (c) (b) and (d)  The initial soil (a) and (c) (b) and (d)  The initial soil (a) and (c) (b) and (d)  The initial soil (a) and (c) (b) and (d)	of the n rate of tensity moistured strategy gradend of vert in facility gradend facilit	ructure, per pillway in cade water disponents roads	area. in water through through the second se	ershed ghout he wa (a) a (a) a ng foll farm Drog Grad	l is constant. the catchment atershed. and (b) and (d) lowing function ponds  p inlet spillway ded bund	ns:										
37.	(a) (b) (c) (d) (1) (3)  Ther (a) (b) (c) (d) Whi (1) (3)  If th of a	Rainfall has occoncentration The infiltration The rainfall in The initial soil (a) and (c) (b) and (d)  re is a gulley con Used as a prin It stabilizes gu Used at lower Used as a culv ich structure is t Chute spillwa Straight drop  re runoff area ind watershed area	of the n rate of tensity moistured strategy gradend of vert in facing this?  y spillwatereases, ?	ructure, per pillway in cade water disp what will i	area. in water through through the second se	ershed ghout he wa (a) a (a) a ng foll farm  Orog Grad et be o	the catchment atershed.  and (b)  and (d)  lowing function ponds  prinlet spillway ded bund  on both the rate	ns:										
38.	(a) (b) (c) (d) (1) (3)  Ther (a) (b) (c) (d) Whi (1) (3)  If th of a (1) (3)	Rainfall has occoncentration The infiltration The rainfall in The initial soil (a) and (c) (b) and (d)  The initial soil (a) and (c) (b) and (d)  The initial soil (a) and (c) (b) and (d)  The initial soil (a) and (c) (b) and (d)  The initial soil (a) and (c) (b) and (d)  The initial soil (a) and (c) (b) and (d)  The initial soil (a) and (c) (b) and (d)  The initial soil (a) and (c) (b) and (d)  The initial soil (a) and (c) (b) and (c) (c) and (d)  The rainfall has occonnected in the initial soil (a) and (c) (b) and (d)  The rainfall has occonnected in the initial soil (a) and (c) (b) and (d)  The rainfall has occonnected in the initial soil (a) and (c) (b) and (d)  The rainfall has occonnected in the initial soil (a) and (c) (b) and (d)	of the n rate of tensity moistured strong st	ructure, per pillway in cade water disp what will in	area. in water through through the second se	ershed ghout the wa (a) a (a) a a (a) a a a a a a a a a a	the catchment atershed.  and (b)  and (d)  lowing function ponds  p inlet spillway ded bund  an both the rate of the catch and t	ns:	volume per un									
886. 887.	(a) (b) (c) (d) (1) (3)  Ther (a) (b) (c) (d) Whi (1) (3)  If th of a (1) (3)	Rainfall has occoncentration The infiltration The rainfall in The initial soil (a) and (c) (b) and (d)  re is a gulley con Used as a prin It stabilizes gu Used at lower Used as a culv ich structure is t Chute spillwa Straight drop  re runoff area inc watershed area it will increase it will remain	of the n rate of tensity moistured strategy gradend of vert in fair end of rain of rain	ructure, per pillway in cade water disp what will in	area. in water through through the second se	ershed ghout he wa (a) a	the catchment atershed.  and (b)  and (d)  lowing function ponds  p inlet spillway ded bund  an both the rate of the catch and t	ns:	volume per un									

- Compensating errors (1)
- (2)Cumulative errors

(3)Human errors

None of the above (4)

91. For moderate slopes and small to moderate irrigation streams, the length of border for clay soils should be \_ meters.

- 100 to 180 (1)
- 60 to 120 (2)
- 150 to 300 (3)
- None of these (4)

92. Priming is required to start:

- reciprocating pump (1)
- centrifugal pump (2)

(3)jet pump (4)axial pump

The christiansen equation for uniformity coefficient (Cu) is expressed as: 93.

- $Cu = 100 \left( 0.1 \frac{\sum x}{mn} \right)$ (1)
- (2)  $Cu=100\left(1.0-\frac{\sum x}{mn}\right)$
- (3) Cu=100  $\left(1.0 \frac{\sum x^2}{mn}\right)$
- $(4) \quad \text{Cu=100} \left( 1.0 + \frac{\sum x}{\text{mn}} \right)$

The flow over trapezoidal notch is proportional to \_\_\_\_\_\_. (H is head over the crest 94. of notch)

- $H^{\frac{3}{2}}$ (1)
- (2)Η
- (3)  $H^{\frac{1}{2}}$
- (4)  $H^{\frac{5}{2}}$

The rate of discharge of irrigation pump (q) is calculated by the following relationship. 95.

$$q = 27.78 - \frac{AY}{RT}$$

Where,  $Y = \underline{\hspace{1cm}}$ 

- Duration of pumping (1)
- Depth of irrigation (2)
- Velocity of water in suction pipe (4)
- Co-efficient of friction

The primary objective/s of a well planned farm-stead is/are: 96.

(1)Sanitation

- (2)Economy
- Low maintenance cost (3)
- All of these (4)

								$\overline{}$	S		
									1.0	8	
										718	
Α					15					D	
97.		presence of abo I by as much as			moist	ure co	ontent in sand	increase	s the	D volume of	
	(1)	1 to 15 percent			(2)	20 to	o 40 percent				
	(3)	50 to 60 percer	nt		(4)	65 to	o 70 percent				
98.	In ba	arbed wire fenci	ng, ba	rbed wire i	is made	e up o	of	gauge w	ire.		
	(1)	10	(2)	14		(3)	18	(4)	22		
99.	The "environment of green house" does not refer to										
	(1)	Crop yield			(2)	Ligh	nt				
	(3)	Air compositio	n		(4)	Nati	ure of root me	edia			
	C	tore in stanshion	harn	are usually	7		cms wide an	d		cms deen	
100.	Gutt	iers in stancinon	Denni	are asumy						emo deep.	

- o 0 o -

DO<sub>2</sub>

16

### सूचना — (पृष्ठ 1 वरून पुढे....)

- (8) प्रश्नपुस्तिकेमध्ये विहित केलेल्या विशिष्ट जागीच कच्चे काम (२फ 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

Q.No. 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 आंहे. त्यामुळे या प्रश्नाचे उत्तर ''(3)'' होईल, आता खालीलप्रमाणे प्रश्न क्र. 201 समोरील उत्तर-क्रमांक ''③'' चा कंस खालीलप्रमाणे पूर्णपणे छायांकित करून दाखविणे आवश्यक आहे.

प्र. इत. 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 बॉलपेन वापरावे, पेन्सिल वा शाईचे पेन वापरू नये.