## **PUNJAB PUBLIC SERVICE COMMISSION**

Objective Type Test (Mar-2020) for Recruitment of Agriculture Development Officer in the Department of Agriculture and Welfare of Farmers, Government of Punjab

READ INSTRUCTIONS BEFORE FILLING ANY DETAILS OR ATTEMPTING TO ANSWER THE QUESTIONS.

Total Questions: 120 Time Allowed: 2 Hours

Candidate's Name	Question
Father's Name	Booklet Set
Date of Birth	
DD MM YYYY	
OMR Response Sheet No.	
Roll No	Booklet Series No.
Candidate's Signature (Please sign in the box)	

## **INSTRUCTIONS**

- 1. The candidate shall NOT open this booklet till the time told to do so by the Invigilation Staff. However, in the meantime, the candidate can read these instructions carefully and subsequently fill the appropriate columns given above in CAPITAL letters. The candidate may also fill the relevant boxes out of 1 to 9 of the Optical Mark Reader (OMR) response sheet, supplied separately
- 2. Use only blue or black ball point pen to fill the relevant columns on this page as well as in OMR sheet. Use of lnk pen or any other pen is not allowed.
- 3. The candidate shall be liable for any adverse effect if the information given above is wrong or illegible or incomplete.
- 4. Each candidate is required to attempt 120 questions in 120 minutes, except for orthopedically/visually impaired candidates, who would be given 40 extra minutes, by marking correct responses on the OMR sheet.
- 5. The candidates, when allowed to open the question paper booklet, must first check the entire booklet to confirm that the booklet has complete number of pages, the pages printed correctly and there are no blank pages. In case there is any such error in the question paper booklet then the candidate should IMMEDIATELY bring this fact to the notice of the Invigilation Staff and obtain a new booklet of the same series as given earlier.
- 6. The serial number of the new Question booklet if issued for some reason should be entered in the relevant column of the OMR. The Invigilation Staff must make necessary corrections in their record regarding the change in the serial no. of Question booklet.
- 7. The question paper booklet has 17 pages.
- 8. The paper consists of total 300 Marks. Each question shall carry 2.5 marks. There are four options for each question and the candidate has to mark the <u>MOST APPROPRIATE answer</u> on the OMR response sheet.
- 9. There is no negative marking for wrong answers or questions not attempted by the candidate.
- 10. The candidate MUST READ INSTRUCTIONS BEHIND THE OMR SHEET before start answering the Questions and check that two carbon copies attached to the OMR sheet are intact.

## Section I

1.	Which	of the following is	not a fiber crop?				
	a)	Crotalarriajuncea		b)	Agave sisalana		
	c)	Corchoruscapsular	is	d)	Lens esculentaN	Ioeench	
2.	Which cotton		ng is the correct for	mula to	compute the ginr	ning percentage in	1
	a)	[100 (yield of lint i	n t/ha)/ (yield of cott	on seed i	n t/ha)]		
	b)	[100 (yield of fibre	in t/ha)/ (yield of co	tton seed	in t/ha)]		
	c)	[100 (yield of lint i	n t/ha)/ (yield of seed	l cotton i	n t/ha)]		
	d)	[100 (yield of cotto	on seed in t/ha)/ (yield	d of seed	cotton in t/ha)]		
3.	Which	one of the followin	g is essential element	to the pl	lants		
	a)	Strontium (Sr)		b)	Nickel (Ni)		
	c)	Chromium (Cr)		d)	Arsenic (As)		
4.		rSeed Standards for f rice is	Certified Seed, the	maximur	n number of wee	ed seeds in one k	3
	a)	5	<b>b)</b> 10	c)	15	<b>d)</b> 20	
5.	The ex	cample of augmenta	tion cropping is				
	a)	Maize + Cucurbits		b)	Pearlmillet + gre	eengram	
	c)	Berseem + forage l	brassica	d)	Wheat + chickpe	ea	
6.	The ea	arly maturing variety	of potato is:				
	a)	KufriChamatkar		b)	KufriBadshah		
	c)	KufriKhyati		d)	KufriNavjot		
7.	Extra-	long staple hybrid o	f cotton is				
	a)	Mahalakshmi	b) Varalaxmi	c)	Dhanalaxmi	d) Krishna	
8.	The 'g	rassy shoot disease'	of sugarcane can be	prevente	d by:		
	a)	Moist hot air treatr	nent of seed-canes				
	b)	Spraying of a suita	ble fungicide				
	c)	Spraying of a recor	mmended bactericide				
	d)	Light trap					

9.	•	Maturing Variety of e and tolerant to frost	_	ost of the prevalentpatho	types of red rot
	a)	CoPb 92	b) Co 118	c) CoJ 85	d) CoJ 64
10.	The qu	uantity ofSathi 10 W	P (Pyrazosulfuron ethyl)	used for pre emergence	weed control in
	a)	600 g/acre	b) 400 g/acre	c) 2000g/ acre	d) 60g/ acre
11.		n variety of sugarcar n districts of Punjab	-	under saline water cond	itions in south-
	a)	CoJ 85	b) Co 118	c) CoJ 88	d) CoPb 92
12.		one of the followi of chickpea?	ng strategies is unsuita	ble for the management	t of 'Ascochyta
	a)	Timely sowing to a	void the early drought		
	b)	Destruction and bur	rial of diseased crop resid	dues by deep tillage	
	c)	1 • •	Nuclear Polyhedrosis Vin	rus) on the crop	
	d)	Cultivation of resist	ant varieties		
13.	In Sog during		moong cropping system	n the pea and moong s	hould be sown
	a)	Pea during First for March	tnight of October and su	mmer moong during seco	ond fortnight of
	b)	Pea during First for of March	tnight of November and	summer moong during s	econd fortnight
	c)	Pea during First for of February	tnight of November and	summer moong during s	econd fortnight
	d)	Pea during First for March	tnight of October and su	mmer moong during first	t fortnight of
14.	The ar	nount of Ammonium	Chloride required for p	rovidingone Kg. nitroger	1
	a)	2.2 kg	b) 6.2 kg	<b>c)</b> 1.7 kg	d) 4 kg
15.	The op	ptimum time for suga	rcane planting during th	e spring season in Punjat	o is:
	a)	Mid-September to e	end of October	b) Mid-November to 6	end of December
	c)	Mid-January to end	of February	d) Mid-February to er	nd of March

16.	To get	higher seed yield in	berseem, the crop should	l be	sprayed			
	· .	· ·	urea at weekly interval, st			ion		
	b)	b) Two sprays of 2% Potassium nitrate at weekly interval, starting from flower						
		initiation.						
	c)	Two sprays of 7.5 g	g of Salicylic acid using 1	00 1	itres of water per acr	e.		
	d)	Either B or C						
17.	Plough	n Pan is developed d	ue to					
	a)	Repeated puddling		b)	Use of surplus resid	ue a	s a mulch	
	c)	Green manuring		d)	Use of gypsum			
18.	Which	one of the following	g statements is incorrect a	ıbou	t the desert locusts?			
			family called Acrididae					
	b)	, ,	orises of four stages, i.e. e	egg,	caterpillar, pupa and	adul	t	
	c)	The adult can const	ume the food equal to its	body	y weight in a day			
	d)	solitary adults are b (mature)	orown whereas gregarious	adu	alts are pink (immatu	re) a	nd yellow	
19.	Perenn	nial legume fodder is	i K					
	a)	Cowpea	b) Clusterbean	c)	Berseem	d)	Stylo	
20.	Geneti	cally the purest seed	l stock is					
		Basic seed		b)	Breeder seed			
	c)	Foundation seed		d)	Registered seed			
21.	Wheat	sowing using Happy	y Seeder requires					
	a)	5-10 kg more seed	per acre than recommend	ed				
	b)	5 kg more DAP per	acre than recommended					
	c)	First irrigation at 25 to heavy soils	5-30 days in light soils an	d at	30-35 days after sow	ing :	in medium	
	d)	All the above						
22.	Shatte	ring andjassid tolera	nt variety of desi cotton					
		LH 2076	b) LD 949	c)	LD 1019	d)	FDK 124	
23.	Which	of the following sta	tement is not true for sub	soil	ing in case of sugarc	ane?		
	a)	It should be done o	nce in 3 to 4 years before	pre	paring the field			
	b)	It helps in breaking	· ·					
	c)	Increase water infil	tration and better root per	netra	ntion			
	•		drawn sub soilerupto a d					
	,	-	_					

24.	For mechanical harves	ting of sugarcane by sug	arcane ha	arvester the cros	n should be	nlanted	
	a) 120 cm row spa		areane m	arvester the crop	o should be	pranted	
	b) 120-30 cm paired row trench method						
	c) Either A or B						
	•	of sugarcane 30 cm apa	rt in 20-2	25- cm deep tre	nch		
25.	,	etter grain quality PR 12		-		l be done	
	from	etter grum quanty 110 1	z r una r	it 120 transplan	iting should	i de done	
	a) 15-20 days old	nursery	b)	25- 30 days ol	d nursery		
	c) 40-45 days old	d nursery	d)	50- 55 days ol	d nursery		
26.	For proper control of v	veeds, it is always necess	sary to us	e			
	a) Flood jet or fla	t fan spray nozzles	b)	Fixed type hol	low cone n	ozzle.	
	c) Double swirl sp	oray nozzle	d)	Adjustable noz	zzles.		
27.	Early maturing maize	composite suitable forrai	infed con	ditions			
	a) PMH 2	b) Parkash	c)	Megha	d) I	PAC 751	
28.	The variety of sugarca	ne which has the ability	of ratoon	ing is			
	a) Co-205	b) Co-419	c)	Co-312	d) (	Co-453	
29.	The lower leaves beco deficiency of	me rusty brown near the	base and	l ultimately dry	up in rice o	lue to the	
	a) Zn	b) Fe	c)	N	d) I	ζ.	
30.	Epipyropesmelanoleuc	a is a parasitoid of					
	a) Sugarcane leaf	hopper	b)	Sugarcane whi	itefly		
	c) Sugarcane roo	t borer	d)	Sugarcane top	borer		
31.	ChemicallyAmistar To	p 325 SC is	and used	for controlling			
	a) Azoxystrolin fo	or controlling Karnal Bu	nt of whe	at			
	b) Azoxystrolin fo	or controlling leaf blight	in cotton				
	c) Difenconazole	for controlling leaf bligh	nt in cotto	n			
	d) Both B and C						
32.	Which one of the followethod of irrigation	lowing is not the limit	tation for	wide scale ac	doption of	sprinkler	
	a) Undulated field	ls					
	b) High wind velo	ocity					
	c) Large amount of	of dissolved salts					
	d) High initial inv	estment and operating co	ost				

33.	Isolati	on distance for produ	cing foundation seed of	bajra	hybrid		
	a)	400 meter	b) 600 meter	c)	800 meter	d)	1000 meter
34.	-	ding upon the varie ranges between:	ety, the recommended s	seed	rate for planting o	f su	garcane in
	a)	55 – 65 quintals/ he	ctare	b)	65 – 75 quintals/ he	ctare	e
	c)	75 – 85 quintals/ hee	ctare	d)	85 – 105 quintals/ h	ecta	re
35.	a) b) c)	Less than 2 % erucion	moles glucosinolates per is canola type				
36.	Wiltin	g of tobacco due to w	vater logging is known a	s			
		Flaming	b) Floating		Flooding	d)	Flooping
37.			pterafrugiperda) is a penage recently to the crop		at feeds in large nun	nbers	s on leaves
	a)	Rice	b) Wheat	c)	Maize	d)	Cotton
38.	Sowin	g of wheat in standin	g rice/basmati rice requi	res			
	a)	40 kg. seed /acre		b)	45 -50 kg seed/ acre	•	
	c)	55 – 60 kg seed /acr	e	d)	75-80 Kg. seed / acr	re	
39.	Which	of the following is n	ot a C 4 plant?				
		Maize	b) Sorghum	c)	Sugarcane	d)	Wheat
40.	The or	otimum sowing time	of 'toria' in Punjab is:				
	a)	Whole September	, and the second	b)	Whole October		
	c)	Whole November		d)	October – Novembe	er	
41.	Photop	period insensitive var	iety of rice				
	a)	Pusa Basmati 1121		b)	Pusa Basmati 1509		
	c)	Pusa Basmati 1637		d)	All the above		
42.	Which	of the following can	control of white rust in	rape	seed and mustard cro	ps?	
	a)	Spray the crop with	250 g Ridomil Gold per	acre	e at 60 and 80 days at	fter s	owing
	b)	Dursban/Coroban 20	O EC				
	c)	Furadan 3 G					
	d)	Seed treatment with	thiram				

43.	In the intercropping of Gobhisarson + Toria, the crops are sown in alternate rows a spacing of:					rows at a	
	a)	15.0 cm	b) 22.5 cm	c)	35.0 cm	d)	42.5 cm
44.	'Parav	vilt' of cotton is:					
	a)	Caused by a fungus		b)	A physiological dis-	order	
	c)	Caused by a virus		d)	Caused by a mycop	lasm	a
45.	The fir	rst stable product of (	$\mathbb{C}_3$ pathway is				
	a)	Phosphoglycerate		b)	Oxaloacetate		
	c)	Pyruvic acid		d)	Malate deydragenas	se	
46.	Lucky	seed drill is used for	•				
	a)	Simultaneous sowir	ng and spray of pre emer	genc	e herbicide in direct	seede	ed rice
	b)	Simultaneous sowir	ng and spray of pre emer	genc	e herbicide in raya		
	c)	Simultaneous sowir	ng and drilling of fertilize	er in	direct seeded rice		
	d)	Simultaneous sowing	ng and drilling of fertilize	er in	wheat		
47.	What	isPhostoxin?					
	a)	Weedicide for contr	colling broad weeds				
			ent of stored grain insects	S			
	•	Nematicide for con	•				
	-	Fungicide for contro	_				
48.	India l	has only one locust b	reeding season and that i	S			
	a)	Summer breeding	-	b)	Winter breeding		
	c)	Spring breeding		d)	None of the above		
49.	The in	correct combination	of nutrient and deficienc	y syi	mptom is		
			of free reducing sugar		_		
	b)	K – Accumulation of	of the diamineputriscine				
	•		lorosis of older leaves				
		Fe – Gray speck in					
50.	The in	ter-row space between	en two adjacent rows of t	he b	ase crop in paired ro	w pla	inting is
	a)	Reduced		b)	Increased		
	c)	Equal		d)	None of the above		

51.		September ember to mid-October October to first week of I	November	
52.	For greenmanuringsunher  a) January - Februar	•	b) April- July	
	c) August – Novemb	•	d) December – Ja	nuary
53.	<ul><li>b) It is a short duration</li><li>c) The tropical sugar</li></ul>	econd largest sugar crop on (6-7 months) sugar crop beet hybrids have good s optimum time of sowin	in the world, after sug op. potential under Punjab	
54.	Seed rate for soybean  a) 25 - 30 Kg/acre c) 10 - 12 Kg/acre		b) 15 - 20 Kg/acre d) 6 - 8 Kg/acre	e
55.	PAU 881 is an early matu	ring variety of		
56.	a) Mungbean Summerurdbean (Blackgrafter	b) Pigeonpea ram) in the central and s	c) Ricebean sub mountainous tracts	d) Soyabean s of Punjab is sown
	a) Potato/Toria	b) Sugarcane	c) Cotton	d) Wheat
<b>57</b> .	Which one of the following	ng is not a bunch type va	ariety of ground nut?	
	a) TG 37 A	b) SG 99	c) M 552	d) SG 84
58.	Yellow rust is in wheat c using 200litres of water as	•		one of the following
	a) 100 ml Opera 18.3	•	b) 200 ml Opera	18.3 SE per acre
	c) 200 g Caviet 25 W	G per acre	d) Either B or C	
59.		ence of this disease?  to four-year crop rotation d cropping with sorghun	on	g measures may not
	*	hing with pigeon pea tra	sh	

60.	The foliar cover at the	top layer of the crop plan	nts is refe	erred as:	
	a) Foliage canopy		b)	Plant canopy	
	c) Crop canopy		d)	Leaf area index	<u> </u>
61.	Which of the following groundnut?	g is a Spanish bunch var	riety, tole	rant to bud necr	osis viral disease in
	a) M548	b) SG 99	c)	M522	d) M13
62.	The copper deficiency	in wheat under rice-whe	at system	n in sandy soils c	can be corrected by
	a) Soil application	of 25 Kg cuso <sub>4</sub> / ha	b)	Soil application	n of 25 Kg cuso <sub>4</sub> / ha
	c) Foliar application	on of 0.2 % cuso <sub>4</sub>	d)	Foliar applicati	on of 0.5 % cuso <sub>4</sub>
63.	Seed plot technique in	potato is used to produc	e:		
	a) Large sized pot	ato	b)	Virus free seed	
	c) Insect free seed		d)	Fungus free see	ed
64.	For synchronous matur	ity in summermoong sto	op last irr	igation	
	a) At about 35 day	s after sowing	b)	At about 45 day	ys after sowing
	c) At about 55 day	s after sowing	d)	At about 65 day	ys after sowing
65.	Finger-and-toe disease	and abortion in animals	can be d	ue to feeding of	
	a) Ergot disease at	ffected fodder		_	
	b) Downy mildew	affected fodder			
	c) Shoot fly affect	fodder			
	d) High HCN at ea	arly growth of the fodde	r		
66.	1 .	pecies, varieties, weeds,			
	•	and performance of crop		tern at a given si	te, are actually:
	•	erminants of cropping s	-		
	b) Biological deter	rminants of cropping sys	stem		
	c) Regional deterr	ninants of cropping system	em		
	d) Occasional dete	erminants of cropping sy	stem		
67.		g disease is easily reco sty black mass of spores		y the appearance	e of long whip-like
	a) Red rot	b) Wilt	c)	Smut	d) Leaf scald
68.	Highest green fodder v	ielding variety ofberseer	m		
	a) BL 1	b) BL 22		BL 42	d) BL 180
	,	-, <b></b>	-)		2, 22 100

69.	A Punjab farmer w	ants to grow 4 crops in a ye	ear, the most suitable	e crop rotation is		
	a) Rice- musta	ard – wheat – moong	b) Maize –	potato – wheat- moong		
	c) Maize- onic	on- wheat – cowpea	d) Cotton –	toria- wheat- moong		
70.	Wheat variety suita	ble for growing under pop	ar plantation			
	a) PBW 677		b) PBW 725	5		
	c) Both A and	В	d) C 306			
71.	Syntheticpyrethroid increase the popular	ds should not be used fo tion of	r the control of ric	ce insect pest because it		
	a) Rice plant h	opper	b) Rice hisp	oa -		
	c) Grasshoppe	r	d) Mite			
72.	Application of sup availability of	er digested compost to ac	dic calcareous and	heavy soils increases the		
	a) N	b) P	c) K	d) Ca		
73.	Spray of <i>Bacillus ti</i>	huriengiensis is suggested t	o manage the:			
	a) Pod borer o	f chickpea	b) Tungro v	rirus of rice		
	c) Aphid of m	-	d) Phyllody			
74.	Which one of the fo	ollowingis "Macaroni Whe	eat"?			
	a) Triticumaes	tivum	b) Triticum	durum		
	c) Triticumdic	occum	d) Triticum	sphaerococcum		
<b>75.</b>	Which one of the fo	ollowing is not a part of Se	ed Production in Lu	cerne?		
	a) Take the las	st cutting of fodder in mid I	March.			
	b) Stop irrigation after full blossoming to arrest further vegetative growth and thus ensure good seed yield.					
	c) The seed crop should be sown in rows 80 to 90 cm apart.					
		en two third of the pods dry	-			
76.	•	ch had tremendous popular stress but succumbing to b	•	_		
	a) HD 229	b) PBW 343	c) C 306	d) PBW 550		
77.	Well rotten FYM c	ontains 40-50 % moisture a	and one ton of such	FYM supplies N, P and K		
	*	5 kg Superphosphate and 3	kg muriate of Potas	h		
		10 kg Superphosphate and				

<b>78</b> .	Safflo	wer oil is valued for its high		
	a)	Linoleic acid	b)	Erucic acid
	c)	Saturated fatty acid	d)	Essential oil
79.		rbon rich porous product obtained after the prature in presence of little or no oxygen is	parti	ial combustion of rice straw at low
	a)	Press mud	b)	Prali char
	c)	Parli compost	d)	Prali wonder
80.	'white	n one of the following strategies does not efly' in cotton?	hel	lp in preventing the incidence of
	,	Timely sowing		
		Growing whitefly tolerant hybrids		
		Late sowing		
	d)	Clearing the wild vegetation/weeds around the	ne fi	ields
81.	Sterili	tymosai is viral disease of which crop and is to	rans	mitted by
	a)	Moong by white fly	b)	Arhar by eriophyid mite
	c)	Moond by eriophyid mite	d)	Cowpea by aphid
82.	Which	n one is not the principle of system of rice inte	nsifi	ication
	a)	Reduced water application	b)	Increase organic matter
	c)	Increase plant density	d)	Early & healthy plant establishment
83.	Lincos	ed cultivation is mainly confined to		
05.		Amritsar and Ludhiana districts		
		Gurdaspur, Hoshiarpur and Ropar districts		
	,	Patiala and Ludhiana districts		
	,	Bhatinda, Abhor and Fazilka districts		
0.4	·			
84.		le inter crops for autumn planted sugarcane		
		Summer moongbean, mash and mentha		
	b)	, , , , ,		
	c)			
	d)	Pearmillet, pigeon pea, groundnut		
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c) 2 kg Urea, 10 kg Superphosphate and 6 kg muriate of Potashd) 4 kg Urea, 6 kg Superphosphate and 4 kg muriate of Potash

85.	a) b) c)	Germinating crop in Mature crop in Mar Flowering stage			e crop in March-Ap	oril.
96	C	:	:C. 1			
86.		variety suitable forra PBG 7	b) GPF 2	c)	PDG 4	d) PBG 5
87.	Rice v	arietyPusa 44/ PeeliI	Pusa is no more recon	nmende	d for cultivation in	Punjab because
	a)	15- 20 % more water	er requirement than PI	R varieti	ies	
	b)	Susceptible to all th	e prevalent pathotype	s of bac	terial blight	
	c)	Both A and B				
	d)	Higher broken grain	percentage			
88.		RB 123' is a newly reng industry.	eleased variety of	•••••	crop, particul	arly suitable for
	a)	Wheat	b) Sorghum	c)	Oats	d) Barley
89.	Sesam	e belongs to the plan	t family:			
	a)	Pedaliaceae		b)	Asteraceae	
	c)	Poaceae		d)	Chenopodiaceae	
90.	For pr	eventing damage by s	shoot fly in sorghum t	the seed	should be treated v	vith
	a)	10 ml Slayer 30 FS	(thiamethoxam) per k	g seed		
	b)	Sulphur dust @ 4 g/	kg seed			
	c)	Bavistin 2g/Kg.seed	1			
	d)	Thiram 2g/kg seed				
91.	Which	of the following is a	hexaploid species of	wheat?		
	a)	Triticumspelta		b)	Triticum durum	
	c)	Triticumpersicum		d)	Triticummonococo	cum
92.	Extra	early maturing maize	composite for summe	er seaso	n is	
	a)	Sangam		b)	Parbhat	
	c)	Paras		d)	Punjab Sathi 1	

93.	The vertical side of the furrow made in the soil away from which the turned soil is throis called				d soil is thrown		
	a)	Furrow face	b) Furrow slice	c) Furrow sole	d) Furrow wall		
94.	For seed production of maize hybridParkash, the parental lines and seed rate/ acre show be  a) CM 139 (6 Kg.) and CM 140 (2 Kg.)  b) CM 40 (6 Kg.) and CM 20 (2 Kg.)						
	c)	c) CM 5 (5.5 Kg.) and CM 20 (2.5 Kg.)					
	d)	d) CM 5(6 Kg.) and CM 200 (2 Kg.)					
95.	The intensity of crop rotation can be computed by using the following formula:						
	a) 100 (Number of crops in the rotation / Number of years of the rotation)						
	b)	b) 100 (Area under each crop in the rotation / Number of years of the rotation)					
	c)	c) 100 (Number of years of the rotation / Number of crops in the rotation)					
	d)	100 (Number of yea	rs of the rotation / Area	under each crop in the ro	otation)		
96.	Which of the following statement is not true forDhaincha?						
	a)	a) Punjab Dhaincha 1 is variety of dhaincha					
	b) Botanically it is Sesbania aculeata						
c) It takes 250 days to mature							
	d)	d) It is used as a green manure crop					
97.	White grub in maize can be controlled by						
	a)	a) Phorate 10 % granules @15 kg/ ha mix in the soil before sowing					
	b)	b) Carbofuramn 3 % granules @30 kg/ ha mix in the soil before sowing					
	c)	c) Either A or B					
	d)	Rogor 30 EC@ 500	ml/ ha spray				
98.	Chemical promoting seed germination						
	a)	Potassium nitrate		b) Potassium chloride			
	c)	Sodium chloride		d) Acetic acid			
99.	Ground	Groundnut aphid ( <i>Aphis craccivora</i> ) apart from ground nut it is a serious pest of					
<i>JJ</i> .		Cowpea	cerrora, apart from gr	b) Beans	OI OI		
	,	Pulses and safflower	•	d) All the above			
	C)	i dises and samower		a) An the above			

100.	Crop loggin	g is generally used	in			
	a) Maiz	ze b)	Cotton	c) Potato	d) Sugarcane	
			Section II			
	ections : (Que n questions:	stions 101 to 104):	Read the following	g information caref	ully to answer the	
F, G Acco	and H. Its ma ounts Officers	anagement is plann	ing to open a new Assistants from its	office in another c	ccounts Officers – D, E, ity using three following guidelines	
(ii)	the same team.  C and E function well alone but not as a team. They should not be sent as members of the same team.  D and G do not enjoy good relations. They should not be sent as members of the same					
(iv) mer	Since D an mbers of the s	d F have been com ame team.	peting for a promo	tion, they should r	not be sent as	
101.	If C and F a can be form		ew office, then wh	at is the number o	of different teams that	
	a) 1	b)	2	c) 3	d) 4	
102.	If C is sent to	o the new office, th	en which member	of the staff cannot	go with C?	
	a) D	b)	F	c) G	d) н	
103.	Under the guidelines developed, which of the following must go to the new office?					
	a) B	b)	D	C) E	d) G	
104.		the new office, the cannot go 2) A ca		owing is/are correct I must also go	t?	
	a) 1 on	ly b)	2 only	C) 1 and 2	d) 1 and 3	
stat the	ements numb statements ar d both the sta	re sufficient to answ tements and give a	pelow it. You have ver the question. nswer	to decide whether	question and two r the data provided in on, while the data in	

statement II alone are not sufficient to answer the question;

- (b) If the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question;
- (c) If the data either in statement I alone or in statement II alone are sufficient to answer the question; and
- (d) If the data given in both statement I and II together are not sufficient to answer the question;
- 105. In a certain code, '13' means 'stop smoking' and '59' means 'injurious habit'. What do '9' and '5' mean respectively in that code?
  - I) '157' means 'stop bad habit'.
  - II)'839' means 'smoking is injurious'.
- **106.** How is D related to A?
  - I) B is the brother of A.
  - II)B is D's son.

**Directions** (Questions 107-108): In each of the following questions, two statements are given followed by three or four conclusions numbers I, II, III and IV. You have to take the given statements to be true even if they seem to be at variance from the commonly known facts and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

**107.** Statements: All aeroplanes are trains. Some trains are chairs.

Conclusions: I. Someaeroplanes are chairs.

II. Some chairs are aeroplanes.

III. Some chairs are trains.

IV. Some trains are aeroplanes.

a) None follows b) Only I and II follow

c) Only II and III follow d) Only III and IV follow

**108.** Statements: All shares are debentures. No debenture is an equity.

Conclusions: I. No equity is a share.

II. Some debentures are shares.

III. No share is an equity.

a) Only I follows b) Only II follows

c) Only III follows d) All follow

**109.** The substance made from only carbon is

a) Sugar b) Acetic acid c) Graphite d) Methane

110.	The three primary colours are						
	a) Blue, green a	nd red	b)	Blue, yellow and red	k		
	c) Yellow, orang	e and red	d)	Violet, indigo and bl	ue		
111.	Fish can survive inside a frozen lake because						
	a) Fish are warm blooded animals						
	b) Fish hibernate in ice						
	c) Water near the bottom does not freeze						
	d) Ice is a good conductor of heat						
112.	In a row of 40 girls, when Komal was shifted to her left by 4 places her number from the left end of the row became 10. What was the number of Swati from the right end of the row if Swati was three places to the right of Komal's original position?						
	a) 22			23			
	c) 25		d)	None of these			
113.	Quinine, the commonly used drug for malaria, is obtained from a plant. What part of the plant yields the drug?						
	a) Leaves	b) Fruits	c)	Root	d) Stem bark		
114.	The sex of a child is o	letermined by the					
	a) Chromosome	s of the father	b) Chromosomes of the mother				
	c) Rh factor of t	d)	d) Blood group of the father				
115.	The term 'MANAV', which was in the news recently, is a						
	a) A database involving indigenous tribal groups						
	b) A satellite launched by ISRO						
	<ul> <li>C) A human atlas project launched by the Department of Biotechnology (DBT),</li> <li>Government of India.</li> </ul>						
	d) A humanoid robot created in Japan						
116.	Who among Siddhartha, Nikunj, Vipul and Mukul is the Youngest?  I. Vipul is younger than Mukul but older than Siddartha and Nikunj.  II.Mukul is the oldest.  III.Siddhartha is older than Nikunj.						
	a) Only 1		b)	Only I and II			
	c) Only I and III		d)	All of these			

117.	The walls and ceiling of an auditorium are covered with fibrous material, such as glass fibre, to						
	a) Beautify the auditorium						
	b) Reduce the cost of construction						
	C) Make the auditorium fire-proof						
	d) Absorb sound and prevent echoes						
118.	Marsh gas, formed from decaying organic matter and also found in coal mines, is						
	a) Carbon dioxide		b) Methane				
	c) Ethane		d) Carbon monoxid	е			
119. Where is National Plant Protection Training Institute locate			titute located?				
	a) Hyderabad	b) New Delhi	C) Jaipur	d) Bangalore			
120.	The National Bureau of Plant Genetic Resources is located at						
	<ul><li>a) Bangalore</li></ul>	b) Jammu	c) New Delhi	d) Shillong			
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