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, <u>when allowed to open</u> the question paper booklet, <u>must first check the entire booklet</u> 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 MOST APPROPRIATE answer 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.	Spray	of Bacillus thur	iengiensis is suggested	to manage	the:					
	a)	Pod borer of ch	ickpea	b)	Tungro virus	of rice				
	c)	Aphid of musta	ard	d)	Phyllody of se	esame				
2.	Wiltin	g of tobacco due	to water logging is known	own as						
	a)	Flaming	b) Floating	c)	Flooding	d) Flooping				
3.	In Soy during		mer moong cropping	system th	e pea and mod	ong should be sown				
	a)	Pea during Firs March	t fortnight of October a	and summe	er moong during	g second fortnight of				
	b)	Pea during First of March	t fortnight of Novembe	r and sum	mer moong dur	ring second fortnight				
	c)	c) Pea during First fortnight of November and summer moong during second fortnight of February								
	d)	d) Pea during First fortnight of October and summer moong during first fortnight of March								
4.	Early 1	maturing maize	composite suitable forra	ainfed con	ditions					
	a)	PMH 2	b) Parkash	c)	Megha	d) PAC 751				
5.	Which of the following is ahexaploid species of wheat?									
	a)	Triticum spelta		b) Triticum durum						
	c)	Triticum persic	um	d)	d) Triticum monococcum					
6.	For gre	eenmanuring su	nhemp can be sown dur	ring						
	a)	January - Febr	uary	b)	April- July					
	c)	August – Nove	mber	d)	December – Ja	anuary				
7.	Sterilit	tymosai is viral (disease of which crop as	nd is trans	smitted by					
	a)	Moong by whit	e fly	b)	Arhar by erio	phyid mite				
	c)	Moond by erio	phyid mite	d)	Cowpea by ap	bhid				
8.	Lucky	seed drill is use	d for							
	a)	Simultaneous s	owing and spray of pre	emergeno	ce herbicide in o	direct seeded rice				
	b)	Simultaneous sowing and spray of pre emergence herbicide in raya								
	c)	c) Simultaneous sowing and drilling of fertilizer in direct seeded rice								
	d)	Simultaneous sowing and drilling of fertilizer in wheat								

9.		ring disease is easily rec		ance of long whip-like					
	a) Red rot	dusty black mass of spor b) Wilt	es? C) Smut	d) Leaf scald					
10.	In the intercropping spacing of:	of Gobhi sarson + Tor	ia, the crops are sown	in alternate rows at a					
	a) 15.0 cm	b) 22.5 cm	c) 35.0 cm	d) 42.5 cm					
11.	The optimum sowing	g time of 'toria' in Punjab	o is:						
	a) Whole Septer	nber	b) Whole Octo	ber					
	c) Whole Nove	nber	d) October – N	ovember					
12.	As perSeed Standard seed of rice is	ds for Certified Seed, the	e maximum number of	weed seeds in one kg					
	a) 5	b) 10	c) 15	d) 20					
13.	b) Used for marc) Nematicide for	r controlling broad weed agement of stored grain or controlling nematodes controlling plant disease	insects						
14.	Sowing of wheat in standing rice/basmati rice requires								
	a) 40 kg. seed /a	icre	b) 45 -50 kg se	ed/acre					
	c) $55 - 60 \text{ kg se}$	ed /acre	d) 75-80 Kg. se	eed / acre					
15.	To get higher seed y	eld in berseem, the crop	should be sprayed						
	a) Two sprays o	f 2% urea at weekly inte	rval, starting from flowe	er initiation					
	b) Two sprays of initiation.	f 2% Potassium nitrate a	t weekly interval, startir	ng from flower					
	c) Two sprays of	f 7.5 g of Salicylic acid u	using 100 litres of water	per acre.					
	d) Either B or C								
16.		isease in pigeon pea. Wincidence of this disease?		ing measures may not					
	a) Adoption of t	hree to four-year crop ro	tation						
	b) Adoption of a	nixed cropping with sorg	ghum						
	, =	lisease resistant varieties							
	d) Adoption of a	nulching with pigeon pea	a trash						

17.	PAU 8	381 is an early maturi	ing v	ariety of						
	a)	Mungbean	b)	Pigeonpea	c)	Ricebean	d)	Soyabean		
18.	For pro	oper control of weeds	s, it	is always neces	ssary to u	se				
	•	Flood jet or flat fan		•	•) Fixed type hollow	cone	nozzle.		
	,	Double swirl spray	•	•	•) Adjustablenozzles				
19.	Highes	st green fodder yieldi	ng v	variety ofbersee	em					
	_	BL 1	-	BL 22		BL 42	d)	BL 180		
20.	Finger	Finger-and-toe disease and abortion in animals can be due to feeding of								
	a)	Ergot disease affect	ed f	odder						
	b)	Downy mildew affe	ctec	l fodder						
	c) Shoot fly affect fodder									
	d) High HCN at early growth of the fodder									
21.	The example of augmentation cropping is									
	a)	Maize + Cucurbits			b)	Pearlmillet + gree	ngran	ı		
	c)	Berseem + forage b	rass	ica	d)) Wheat + chickpea				
22.	A Punjab farmer wants to grow 4 crops in a year, the most suitable crop rotation is									
	a)	Rice- mustard – who	eat -	b)) Maize – potato – v	wheat	- moong			
	c)	Maize- onion- whea	at — (cowpea	d)) Cotton –toria- who	eat- m	noong		
23.	Which	of the following can	cor	ntrol of white ru	ıst in rapo	eseed and mustard c	rops?			
	a)	Spray the crop with	250	g Ridomil Gol	ld per acr	e at 60 and 80 days	after	sowing		
	b)	Dursban/Coroban 2	0 E	C						
	c)	Furadan 3 G								
	d)	Seed treatment with	thi	ram						
24.	Suitab	le inter crops for autu	ımn	planted sugarc	ane					
	a)	Summer moongbear	n, m	ash and menth	a					
	b)	Potato, raya, toria, g	gobh	i sarson, wheat	t					
	c)	Cotton								
	d)	Pearmillet, pigeon p	oea,	groundnut						
25.	The in	ter-row space betwee	en tv	vo adjacent row	vs of the l	base crop in paired r	ow pl	anting is		
	a)	Reduced			b)) Increased	_			
	c)	Equal			d)	None of the above	e			

26.	India l	has only one locust b	reeding season and that is	S					
	a)	Summer breeding		b)	Winter breeding				
	c)	Spring breeding		d)	None of the above				
27.	The va	ariety of sugarcane w	hich has the ability of rat	oon	ing is				
	a)	Co-205	b) Co-419	c)	Co-312	d) Co-453			
28.	Geneti	ically the purest seed	stock is						
	a)	Basic seed		b)	Breeder seed				
	c)	Foundation seed		d)	Registered seed				
29.	Wheat	variety suitable for g	growing under poplar pla	ntat	ion				
	a)	PBW 677		b)	PBW 725				
	c)	Both A and B		d)	C 306				
30.	Seed r	ate for soybean							
	a)	25 - 30 Kg/acre		b)	15 - 20 Kg/acre				
	c)	10 - 12 Kg/acre		d)	6 – 8 Kg/acre				
31.	Factors such as crop species, varieties, weeds, insect-pests, and diseases, which determine the crop configuration and performance of cropping pattern at a given site, are actually:								
	a)	Economical determ	inants of cropping systen	1					
	b)	Biological determin	ants of cropping system						
	c)	Regional determina	nts of cropping system						
	d)	Occasional determin	nants of cropping system						
32.	For me	echanical harvesting	of sugarcane by sugarcar	ne ha	arvester the crop shou	ıld be planted			
	a)	120 cm row spacing	5						
	b)	120-30 cm paired ro	ow trench method						
	c)	Either A or B							
	d)	Plant two rows of so	ugarcane 30 cm apart in 2	20- 2	25- cm deep trench				
33.	For hi from	gher yield and better	grain quality PR 124 an	d P	R 126 transplanting s	should be done			
	a)	15- 20 days old nur	sery	b)	25- 30 days old nurs	sery			
	c)	40-45 days old nur	rsery	d)	50- 55 days old nurs	sery			

34. 'DWRB 123' is a newly released variety of crop, particularly suit brewing industry.						table for	
	a) Wheat	b) Sorghum	c)	Oats	d) B	arley	
35.	b) It helps in breakingc) Increase water infi	once in 3 to 4 years befo	ore prep penetra	paring the field	ane?		
36.	The early maturing variety	of potato is:					
	a) Kufri Chamatkar		b)	Kufri Badshah			
	c) Kufri Khyati		d)	Kufri Navjot			
37.	Depending upon the var Punjab ranges between:	iety, the recommended	seed	rate for planting of	f suga	rcane in	
	a) 55 – 65 quintals/ h	ectare	b)	65 – 75 quintals/ he	ctare		
	c) 75 – 85 quintals/ h	ectare	d)	85 – 105 quintals/ h	ectare		
38.	 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) 100 (Area under each crop in the rotation / Number of years of the rotation) c) 100 (Number of years of the rotation / Number of crops in the rotation) d) 100 (Number of years of the rotation / Area under each crop in the rotation) 						
39.	The amount of Ammonium	m Chloride required for	provid	lingone Kg. nitrogen			
	a) 2.2 kg	b) 6.2 kg	c)	1.7 kg	d) 4	kg	
40.	Which one of the following	g is essential element to	the pl	lants			
	a) Strontium (Sr)		b)	Nickel (Ni)			
	c) Chromium (Cr)		d)	Arsenic (As)			
41.	Application of super dige availability of	ested compost to acidic	calcar	eous and heavy soil	s incre	eases the	
	a) N	b) P	c)	K	d) C	a	
42.	Yellow rust is in wheat cousing 200litres of water as	-		_	f the fo	ollowing	
	a) 100 ml Opera 18.3	SE per acre	b)	200 ml Opera 18.3 S	SE per	acre	
	c) 200 g Caviet 25 W	G per acre	d)	Either B or C			

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43.	At what stage Bagra	At what stage Bagrada hilaris attacks mustard crop									
	a) Germinating	crop in October	-								
	b) Mature crop	n March-April									
	c) Flowering stage										
	d) Germinating	crop in October and again	on matur	re crop in March-Ap	ril.						
44.	Gram variety suitabl	e forrainfed conditions									
	a) PBG 7	b) GPF 2	c)	PDG 4	d)	PBG 5					
45 .	White grub in maize can be controlled by										
	a) Phorate 10 %	a) Phorate 10 % granules @15 kg/ ha mix in the soil before sowing									
	b) Carbofuramn 3 % granules @30 kg/ ha mix in the soil before sowing										
	c) Either A or B										
	d) Rogor 30 EC@ 500 ml/ ha spray										
46.	The lower leaves bed deficiency of	come rusty brown near the	base and	ultimately dry up in	n rice	due to the					
	a) Zn	b) Fe	c)	N	d)	K					
47.	The foliar cover at the top layer of the crop plants is referred as:										
	a) Foliage cano	ру	b)	Plant canopy							
	c) Crop canopy		d)	Leaf area index							
48.	Wheat sowing using	Happy Seeder requires									
	a) 5-10 kg more	seed per acre than recom	mended								
	b) 5 kg more Da	AP per acre than recomme	ended								
	c) First irrigation to heavy soils	n at 25-30 days in light so	ils and at	30-35 days after sov	wing	in medium					
	d) All the above										
49.	Plough Pan is develo	ped due to									
	a) Repeated puo	ldling	b)	Use of surplus resid	due a	s a mulch					
	c) Green manur	ing	d)	Use of gypsum							
50.	The copper deficience	y in wheat under rice-whe	eat system	n in sandy soils can l	be co	rrected by					
	a) Soil applicati	on of 25 Kg cuso ₄ / ha	b)	Soil application of	25 K	g cuso ₄ / ha					
	c) Foliar applica	ation of 0.2 % cuso ₄	d)	Foliar application of	of 0.5	% cuso ₄					

51.	increase the population of								
	a)	Rice plant hopper		b)	Rice hispa				
	c)	Grasshopper		d)	Mite				
52.	Which	of the following stat	ement is not true forDh	ainch	na?				
	a)	Punjab Dhaincha 1 i	s variety of dhaincha						
	b)	Botanically it is Sess	bania aculeata						
	c)	It takes 250 days to	mature						
	d)	It is used as a green	manure crop						
53.	The op	otimum time for sugar	rcane planting during th	ne spi	ring season in Punjab	is:			
	a)	Mid-September to e	nd of October	b)	Mid-November to e	nd o	f December		
	c)	Mid-January to end	of February	d)	Mid-February to en	d of	March		
54.	The in	correct combination of	of nutrient and deficien	cy sy	mptom is				
	a)	P – Accumulation of	f free reducing sugar						
	b)	K – Accumulation o	of the diamine putriscine	e					
	c) Mg – Inter-veinal chlorosis of older leaves								
	d)	Fe – Gray speck in o	oats						
55.	Which one of the followingis "Macaroni Wheat"?								
	a)	Triticum aestivum		b)	Triticum durum				
	c)	Triticum dicoccum		d)	Triticum sphaeroco	ccun	n		
56.	Isolati	on distance for produ	cing foundation seed of	fbajra	ı hybrid				
	a)	400 meter	b) 600 meter	c)	800 meter	d)	1000 meter		
57 .	Which	one of the following	is not a bunch type var	iety (of ground nut?				
	a)	TG 37 A	b) SG 99	c)	M 552	d)	SG 84		
58.	Seed p	olot technique in potat	to is used to produce:						
	a)	Large sized potato		b)	Virus free seed				
	c)	Insect free seed		d)	Fungus free seed				
59.	Which	_	Spanish bunch variety	, tole	erant to bud necrosis	viral	disease in		
	a)	M548	b) SG 99	c)	M522	d)	M13		

60 .	Extra-long s	taple hybrid of	cotte	on is				
	a) Maha	alakshmi	b)	Varalaxmi	c)	Dhanalaxmi	d)	Krishna
61.	Which of the	e following is n	ot a	C 4 plant?				
	a) Maiz	ze	b)	Sorghum	c)	Sugarcane	d)	Wheat
62.		•		ndous popularity a		ximum area, high lev and leaf rust	rel o	f tolerance
	a) HD 2	229	b)	PBW 343	c)	C 306	d)	PBW 550
63.	Which one cotton?	of the followin	g is	the correct formu	ıla to	compute the ginning	; per	centage in
	a) [100	(yield of lint in	t/ha	a)/ (yield of cotton	seed i	n t/ha)]		
	b) [100	(yield of fibre i	n t/l	na)/ (yield of cotto	n seed	in t/ha)]		
	, -	•		a)/ (yield of seed co		, -		
d) [100 (yield of cotton seed in t/ha)/ (yield of seed cotton in t/ha)]								
64.	Which one is	s not the princip	ole c	of system of rice in	tensifi	cation		
	a) Redu	iced water appli	icati	on	b)	Increase organic ma	tter	
	c) Incre	ease plant densit	ty		d)	Early & healthy plan	at es	tablishment
65.		ety of sugarcandricts of Punjab?		ould be planted	unde	r saline water condi	tions	s in south-
	a) CoJ	85	b)	Co 118	c)	CoJ 88	d)	CoPb 92
66.	Safflower oi	l is valued for i	ts hi	gh				
	a) Lino	leic acid			b) Erucic acid			
	c) Satur	rated fatty acid			d)	Essential oil		
67.	Photoperiod	insensitive vari	iety	of rice				
	a) Pusa	Basmati 1121			b)	Pusa Basmati 1509		
	c) Pusa	Basmati 1637			d)	All the above		
68.	•	ing Variety of stolerant to frost	_	rcane tolerant to r	nost o	f the prevalentpathot	ypes	s of red rot
	a) CoPt	92	b)	Co 118	c)	CoJ 85	d)	CoJ 64
69.	The 'grassy	shoot disease' o	of su	garcane can be pre	evente	d by:		
	a) Mois	st hot air treatme	ent c	of seed-canes				
	b) Spra	ying of a suitab	le fu	ıngicide				
	c) Spra	ying of a recom	men	ided bactericide				
	d) Light	t trap						

70.	Shattering andjas	sid tolerant	variety of desi	cotton						
	a) LH 2076	b) LD 949	(c) LD 10)19	d)	FDK 124		
71.	The quantity of Srice	athi 10 WP (Pyrazosulfuro	on ethyl) us	sed for pr	e emergen	ce weed	l control in		
	a) 600 g/acr	e b	o) 400 g/acre	(c) 2000g	g/ acre	d)	60g/ acre		
72.	Which one of the following is not a part of Seed Production in Lucerne?									
	a) Take the	last cutting o	of fodder in mi	id 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 ro	ws 80 to 90) cm apar	t.				
	d) Harvest v	d) Harvest when two third of the pods dry up.								
73.	'Parawilt' of cott	on is:								
	a) Caused by	y a fungus		k) A phy	siological	disorde	r		
	c) Caused by	y a virus		(d) Cause	d by a my	coplasm	na		
74.	The vertical side is called	of the furro	w made in the	e soil away	from wh	nich the tur	rned soi	l is thrown		
	a) Furrow fa	ice b) Furrow slic	ce (C) Furro	w sole	d)	Furrow wall		
75 .	Which one of the following strategies is unsuitable for the management of 'Ascochyta blight' of chickpea?									
	a) Timely sowing to avoid the early drought									
	b) Destruction and burial of diseased crop residues by deep tillage									
	c) Spraying of NPV (Nuclear Polyhedrosis Virus) on the crop									
	d) Cultivation	d) Cultivation of resistant varieties								
76.	A carbon rich petemperature in pr	-		-	rtial com	bustion of	rice st	raw at low		
	a) Press muc	d		k) Prali o	char				
	c) Parli com	post		(d) Prali v	wonder				
77.	For seed product be	ion of maize	e hybridParka	sh, the par	ental line	es and seed	d rate/ a	acre should		
	a) CM 139 ((6 Kg.) and C	CM 140 (2 Kg	.)						
	b) CM 40 (6	Kg.) and Cl	M 20 (2 Kg.)							
	c) CM 5 (5	.5 Kg.) and	CM 20 (2.5 K	g.)						
	d) CM 5(6 k	d) CM 5(6 Kg.) and CM 200 (2 Kg.)								
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78.	Perenr	nial legume fodder is					
	a)	Cowpea	b) Clusterbear	n C)	Berseem	d)	Stylo
79.	a) b)	6 6	(thiamethoxam) /kg seed		l should be treated	with	
80.	a) b) c)	ed cultivation is main Amritsar and Ludhi Gurdaspur, Hoshian Patiala and Ludhian Bhatinda, Abhor an	iana districts pur and Ropar di na districts				
81.	•	ogging is generally t Maize	used in b) Cotton	c)	Potato	d)	Sugarcane
82.	a) b) c)	Azoxystrolin for co Azoxystrolin for co Azoxystrolin for co Difenconazole for c Both B and C	ontrolling Karnal ontrolling leaf bli	Bunt of whe	at		
83.	a) b) c)	Less than 2 % eruci Less than 30 micro Raya variety RCL 3	ic acid in the oil moles glucosino is canola type	lates per gra			
84.	after	erurdbean (Blackgr	·			Ū	
	a)	Potato/Toria	b) Sugarcane	c)	Cotton	d)	Wheat
85.	'white a) b) c)	one of the follow fly' in cotton? Timely sowing Growing whitefly to Late sowing Clearing the wild v	olerant hybrids			he in	cidence of

86.	Sesam	e belongs to the plan	t family:			
	a)	Pedaliaceae		b)	Asteraceae	
	c)	Poaceae		d)	Chenopodiaceae	
87.	Which	of the following is r	not a fiber crop?			
	a)	Crotalarria juncea		b)	Agave sisalana	
	c)	Corchorus capsular	is	d)	Lens esculenta Mo	oeench
88.	Chemi	ical promoting seed g	germination			
	a)	Potassium nitrate		b)	Potassium chloride	
	c)	Sodium chloride		d)	Acetic acid	
89.			optera frugiperda) is a property and property is a property to the cross section of the cross		at feeds in large nun	nbers on leaves
	a)	Rice	b) Wheat	c)	Maize	d) Cotton
90.	The fin	rst stable product of (\mathbb{C}_3 pathway is			
	a)	Phosphoglycerate		b)	Oxaloacetate	
	c)	Pyruvic acid		d)	Malate deydragenas	e
91.		otten FYM contains	40-50 % moisture and	one to	n of such FYM supp	lies N, P and K
	a)	4 kg Urea, 5 kg Sup	perphosphate and 3 kg r	nuriate	e of Potash	
	b)	4 kg Urea, 10 kg Su	perphosphate and 6 kg	muria	te of Potash	
	c)	2 kg Urea, 10 kg Su	perphosphate and 6 kg	muria	te of Potash	
	d)	4 kg Urea, 6 kg Sup	perphosphate and 4 kg r	nuriate	e of Potash	
92.	Which	one of the following	g statements is incorrect	t abou	t the desert locusts?	
	a)	They belong to the	family called Acrididae	•		
	b)	The life cycle comp	orises of four stages, i.e	. egg,	caterpillar, pupa and	adult
	c)	The adult can consu	me the food equal to it	s body	weight in a day	
	d)	solitary adults are b (mature)	rown whereas gregario	us adu	lts are pink (immatu	re) and yellow
93.	For sy	nchronous maturity i	n summermoong stop l	ast irri	gation	
	a)	At about 35 days af	ter sowing	b)	At about 45 days aft	ter sowing
	c)	At about 55 days af	ter sowing	d)	At about 65 days aft	ter sowing

94.	Which one of the following is not the limitation for wide scale adoption of sprinkle method of irrigation					
	a) Undulated fields					
	b) High wind velocity					
	c) Large amount of dissolved salts					
	d) High initial investment and ope	rating cost				
95.	Groundnut aphid (Aphis craccivora) apart from ground nut it is a serious pest of					
	a) Cowpea	b) Beans				
	c) Pulses and safflower	d) All the above				
96.	Rice varietyPusa 44/ Peeli Pusa is no more recommended for cultivation in Punjab because of					
	a) 15-20 % more water requirement than PR varieties					
	b) Susceptible to all the prevalent pathotypes of bacterial blight					
	c) Both A and B					
	d) Higher broken grain percentage					
97.	Epi pyropes melanoleuca is a parasitoio	lof				
	a) Sugarcane leaf hopper	b) Sugarcane whitefly				
	c) Sugarcane root borer	d) Sugarcane top borer				
98.	Extra early maturing maize composite for summer season is					
	a) Sangam	b) Parbhat				
	c) Paras	d) Punjab Sathi 1				
99.	Which of the following statement is not true forsugarbeet?					
	a) Sugarbeet is the second largest sugar crop in the world, after sugarcane.					
	b) It is a short duration (6-7 months) sugar crop.					
	c) The tropical sugarbeet hybrids have good potential under Punjab conditions					
	d) June to mid-July is optimum time of sowing					
100.	The best time for sowing of potato in Punjab is:					
	a) First fortnight of September					
	b) Last week of September to mid-October					
	c) Last fortnight of October to firs	t week of November				
	d) Second fortnight of November					

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Section II

Directions: (Questions 101 to 104): Read the following information carefully to answer the given questions:

XYZ Ltd. Presently has three Accounts Assistants – A, B and C - and five Accounts Officers – D, E, F, G and H. Its management is planning to open a new office in another city using three Accounts Officers and two Accounts Assistants from its present staff. The following guidelines have been established to set up the new office:

- (i) A and C are constantly finding faults with each other and should not be sent as members of the same team.
- (ii) C and E function well alone but not as a team. They should not be sent as members of the same team.
- (iii) D and G do not enjoy good relations. They should not be sent as members of the same team.
- (iv) Since D and F have been competing for a promotion, they should not be sent as members of the same team.

101.	If C and F are moved to the new office, then what is the number of different teams that can be formed?				
	a) 1	b) 2	c) 3	d) 4	
102.	If C is sent to the new	office, then which m	nember of the staff cannot go	with C?	
	a) D	b) F	c) G	d) H	
103.	103. Under the guidelines developed, which of the following must go to the new office?				
	a) B	b) D	c) E	d) G	
104. If D goes to the new office, then which of the following is/are correct?					
	1) C cannot go	2) A cannot go	3) H must also go		
	a) 1 only	b) 2 only	C) 1 and 2	d) 1 and 3	
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Directions (Questions 105-106): Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question.

Read both the statements and give answer

- (a) If the data in statement I alone are sufficient to answer the question, 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. Some aeroplanes 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.** 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
- 110. 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

o) 23

c) 25

d) None of these

111.	The thre	ee primary colours a	ire			
	a) 1	Blue, green and red		b) Blue, yellow a	nd red	
	c) \	rellow, orange and	red	d) Violet, indigo	and blue	
112.	The term 'MANAV', which was in the news recently, is a					
	a) A database involving indigenous tribal groups					
	b) A	b) A satellite launched by ISRO				
	 C) A human atlas project launched by the Department of Biotechnology (DBT), Government of India. 					
	d) A humanoid robot created in Japan					
113.	Quinine, the commonly used drug for malaria, is obtained from a plant. What part of the plant yields the drug?					
	a) ı	Leaves	b) Fruits	c) Root	d) Stem bark	
114.	Where i	s National Plant Pro	tection Training Institu	te located?		
		Hyderabad	b) New Delhi	C) Jaipur	d) Bangalore	
115.	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) I	C) Make the auditorium fire-proof				
	d) A	d) Absorb sound and prevent echoes				
116.	The National Bureau of Plant Genetic Resources is located at					
	a) E	Bangalore	b) Jammu	c) New Delhi	d) Shillong	
117.	Marsh gas, formed from decaying organic matter and also found in coal mines, is					
	a) (Carbon dioxide		b) Methane		
	c) E	Ethane		d) Carbon mono	xide	
118.	The sex of a child is determined by the					
	a) (Chromosomes of the	e father	b) Chromosome	s of the mother	
	c) F	Rh factor of the pare	ents	d) Blood group o	of the father	

119.	The substance made from only carbon is				
	a) Sugar	b) Acetic acid	c) Graphite	d) Methane	
120.	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		

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