SEAL

003653

Booklet Serial No.

Test Booklet Series

TEST BOOKLET - 2022

SCIENTIFIC OFFICER SEROLOGY

(21)



Time Allowed: Two Hours

Maximum Marks: 120

INSTRUCTIONS

- IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
- 2. Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series Code A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Response Sheet. Any omission/discrepany will render the Response Sheet liable for rejection.
- You have to enter your Roll Number on the Test Booklet in the Box provided alongside. DO NOT write anything else on the Test Booklet.
- 4. This Test booklet contains 120 items (questions). Each item comprises of four responses (answers). You will select the response which you want to mark on the Response sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose ONLY ONE response for each item.
- You have to mark all your responses ONLY on the separate Response Sheet provided. See directions in the Response Sheet.
- 6. All items carry equal marks.
- 7. Before you proceed to mark in the Response sheet the response to various items in the Test Booklet you have to fill in some particulars in the Response Sheet as per instructions sent to you with your Admission Certificate.
- 8. After you have completed filling in all your responses on the Response Sheet and the examination has concluded, you should hand over to the Invigilator only the Response Sheet. You are permitted to take away with you the Test Booklet and Candidate's Copy of the Response Sheet.
- 9. Sheets for rough work are appended in the Test Booklet at the end.
- 10. Penalty for wrong answers:

THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY THE CANDIDATE.

- (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, 0.25 of the marks assigned to that question will be deducted as penalty.
- (ii) It a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answers happens to be correct and there will be same penalty as above for that question.
- (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be no penalty for that question.

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO

ceased

the compliance by a few many reserved at the second section in the second section in the second section is a second section in the section in the second section is a section in the section in the section in the section is a section in the section in the section is a section in the section in the section in the section is a section in the section in the section in the section is a section in the section in the section in the section is a section in the section in the section in the section is a section in the section in the section in the section is a section in the section in

Anish date (1) 60 Marin C.

21(A)

(2)

1.		en one enters into some place, he takes some things from and leaves some is given under:	ne things
	A)	Principle of exchange	
	B)	Principle of comparison	
	C)	Principle of analysis	
	D)	Law of prograssive change	
2.	"The	ere can be no better analysis than the sample analysed" is the principle of:	
	A)	Law of progressive change	
	B)	Principle of analysis	
	C)	Law of probability	
	D)	Law of circumstantial facts	
3.	The	dirt and rocks present on murder victim can be examined under the field of	of:
	A)	Forensic Geology	
	B)	Forensic Physics	
	C) D)	Forensic Biology Forensic chemistry	
4.	App	plication of comparison microscope for the analysis of bullets is given by	
	A)	Leone lattes	
	B)	Albert Osborn	
	C)	Calvin Goddard	
	D)	Francis Galton	
5.	Inv	which country the first fingerprint bureau was established:	
٥.	A)	China	
	B)	USA	
	C)	London	
	D)	India	
21((A)	(3)	[P.T.O

6.	Which method/s is/are used for the recording of crime scene?				
	A)	Notes	B)	Photography	
	C)	Sketching	D)	All of the above	
113					
7.	CC	D are the sensors used in:			
Alde T	A)	Camera	B)	Metal detectors	
	C)	Scanners	D)	None of the above	
8.	Tre	ad marks, if found, can be classified	ed as	crime scene	
	A)	Macroscopic	B)	Microscopic	
	C)	Indoor	D)	Outdoor	
9.	The	place which the culprit had used f	or the	making of bomb can be classified as	
	A)	Indoor crime scene	1		
	B)	Outdoor crime scene			
	C)	Primary crime scene			
	D)	Secondary crime scene			
10.	The	area surrounding the actual crime	scene	can be categorised under	
	A)	Outdoor	B)	Macroscopic	
	C)	Indoor	D)	Primary	
			á.		
11.	Whi	ch of the following is not an ethic	al pra	ctice in forensic science?	
	A)	Unbiased examination			
	B)	Achieving competency			
	C)	Giving opinion in every matters e	ven b	eyond expertise	
	D)	Present accurate and complete da	ita.		

12.	Exam	nination and handling of cases in	nvolving	family and friends, falls under the category
	A)	Conflict of interest		
	B)	Lack of competency		
	C)	Tampering evidences		
	D)	Presentation of inaccurate data	a	
13.	Blac	ck powder is an example of	ex	plosive?
	A)	Molecular	B)	Composite
	C)	Initiator	D)	All the options
14.	Glas	ss pieces become very importan	nt evider	nce in cases of
	A)	Murder	B)	Homicide
	C)	Arson	D)	Burglary
15.	In th	ne manufacturing of glasses, Se	lenium i	is used as
	A)	Formers	B)	Stabilizers 11 11 11 11 11 11 11 11 11 11 11 11 11
14	C)	Colorants	D)	Refining agents
	, in			
16.	Mic	croscopic examination can be p	erforme	ed for the analysis of
	A)	Fibers	B)	Soil
	C)	Glass	D)	All of the above
17.		Crime scene is present in a residerime scene?	dential a	area, which method is preferred for the search
	A)	Zonal method		
	B)	Spiral method		
	(C)	Strip method		
7-1	D)	All of the above		

18	3. Si	gn of struggle can be fou	nd on death bo	ody in the cases of
	A)		B)	
	C)	Suicide	D)) Both A and B
19	. If t	he pool of blood is found ood?	d at crime scene	e then can be used for the collection of
	A)	Pipetting	В)	Swabbing
	C)	Vacuuming	D)	None of the above
20.	. Dra	ag marks and teeth marks	s are the types of	of?
	A)	Biological evidences		
	B)	Impression evidences		
	C)	Pressure evidences		
	D)	Odonatological eviden	nces	
21.	Sele	ecting every 10th house for	or sampling is	called
	A)	Sequential sampling		
	B)	Systematic sampling		
	C)	Stratified sampling		
	D)	Random sampling		
22.	The valu	square - root of the aver es of individual items in	age of squares a series are ob	of deviations, when such deviations for the tained from the arithmetic average is called
	A)	Mode	B)	Median
	C)	Standard deviation	D)	Mean
23.	Whic	ch of the following is a n	on - parametrio	c test?
	A)	T-test	В)	ANOVA
	C)	Linear regression	D)	Chi square
21(A)		(6)	

	A)	4	B)	5	M. St.
	C)	6	D)	2.5	
25.	Cal	culate the mode of 3,4,7,4,7,4,1,2			
	A)	7	B)	1	
	C)	4	D)	7.4	
26.	Rep	orts of government scientific expe	erts is	given under	
	A)	Section 293 of Cr.P.C	B)	Section 292 of Cr.P.C.	
	C)	Section 296 of Cr.P.C	D)	Section 45 of Cr.P.C.	
		Albert Ville Military and State	A. P.		
27.	Adr	nissibility of evidence falls under			100
	A)	Section 13 of IEA	B)	Section 136 of IEA	
	C)	Section 23 of IEA	D)	Section 154 of IEA	
28.	Pun	ishment of murder is given under			
	A)	Section 300 of IPC	B)	Section 301 of IPC	
	C)	Section 302 of IPC	D)	Section 377 of IPC	
*					
29.	Pun	ishment of criminal conspiracy is	menti	oned under	
	A)	Section 47 of IPC	B)	Section 120 of IPC	
- "	C)	Section 120 C of IPC	D)	Section 120 B of IPC	
30.	Abd	luction is defined under			
	A)	Section 362 of IPC	B)	Section 63 of IPC	The ST - TA
	C)	Section 73 of IPC	D)	None of the above	
21(4	1		(7)		PTO

24. The median of 3,4,5,6 and 7 is:

	A)	Section 45 of IPC	B)	Section 293 of IPC
	C)	Section 45 of IEA	D)	Section 3 of IEA
		A - Control of the section of the		Microbilization (
32.	An	expert witness is an ordinary perso	n wh	
02.			JII VVII	
	A)	Was involved in the case		
	B)	Is knowledgeable about a specif	ic fiel	d
	C)	Has knowledge about the facts of	fthe	case at hand
	D)	Is trained in the law		
22	XX/L	:-h -f-th - f-11		
33.			dome	mbrane system of eukaryotic cell?
	A)	Golgi complex	B)	Chloroplast
	C)	Mitochondria	D)	Peroxisomes
34.	Thre	ee morphological forms fo Golgi	comp	lex are :
	A)	Granum, thylakoids and vesicles		
	1000			
	B)	Lamellae, tubules and vesicles		
	C)	Cisternae, tubules and vesicles		
	D)	Cisternae, tubules and lamellae	10. 4	
35.	Extr	a nuclear genes are found in:		
		Nucleus and mitochondria		
	A)			
	B)	Lysosome and Chloroplast		
	C)	Mitochondria and chloroplast		
	D)	Golgi body and Endoplasmic reti	iculur	n
			- 1	

31. Opinions of expert is given under

36.	An o	organelle with an internal cross	section	Showing characteristic 9.2 morphology				
	A)	Cytoskeleton	B)	Microtubule				
	C)	Microfilament	D)	Cilium or Flagellum				
37.	Feat	ures of eukaryotic cells not fou	ınd in pr	okaryotes:				
	A)	Complex cytoskeletal system						
	B)	Plasma membrane						
	C)	Shared metabolic pathways						
	D)	Proteasomes						
38.	Whi	ich of these statements is gener	ally true	e to integral membrane proteins?				
	A)	They are unusually susceptible	e to deg	radation by trypsin.				
	B)	The domains that protrude on the cytoplasmic face of the plasma membrane nearly always have covalently attached oligosaccharides.						
	C)	They can be removed from the membrane with high salt or mild denaturing agents						
	D)	A hydropathy plot reveals one	e or mor	e regions with a high hydropathy index.				
39.	Wh	o coined the term mitochondric	on?					
	A)	Camillo Golgi	B)	Carl Benda				
	C)	Schimper	D)	Schleicher				
40.	Wh	no discovered and named the en	doplasn	nic reticulum?				
	A)	Keith Roberts Porter						
	B)	Behrens						
	C)	Eduard Strasburger						
	D)	Schleicher						
210	(A)		C	(P.T.O.				

21(A)

41	. Th	e type of coiling in DNA is:		Marken of Control of the Control of
	A)	Opposite	B)	Right - handed
	C)	Left - handed	D)	Zig-zag
				Bush with the language way a gift in
42.	W	nich of the following enzymes sep	arates	the two strands of DNA during replication?
	A)	DNA polymerase	B)	Topoisomerase
	C)	Gyrase	D)	Helicase
			**	
43.	Ass	ociation of histones H1 with nuc	leosor	ne shows:
	A)	The condensation of DNA into	chron	natin fibre
	B)	The occurrence oof replication		
	C)	Exposed DNA double helix		the say by the state of the said
	D)	The occurrence of transcription		Water Carlotte Committee C
		referenciación de la Palación		terra da la companiona de
44.	The	bases are held together in a DNA	doubl	e helix by hydrogen bonds. These bonds are:
	A)	Vander Waals forces	B)	Non - covalent bonds
	C)	Covalent bonds	D)	Ionic bonds
45.	Nam	ne the protein, which is used for te	ermina	ation of replication?
	A)	SSB	B)	DNA polymerase
	C)	Tus protein	D)	DnaC
46.	Whic	ch of the following would relax ne	gativ	ely supercoiled DNA?
	A)	Collagen	B)	DNA gyrase
	C)	Elastin	D)	Topoisomerase I
				THE REPORT OF THE PROPERTY OF THE PARTY OF T

47.	Whi	ch of the following best descri	bes the p	olysomes?	
	A)	Active site for synthesis of pr	roteins		A.
	B)	Active site for synthesis of D	NA		10
	C)	Active site for synthesis of li	pids		
	D)	All of these	S NOW S		
				1 :14	
48.		rotein synthesis, translocation	is initiate	d with the movement of:	
	A)	tRNA from A-site to P-site	Land I		
	B)	tRNA from P-site to E-site	THE LOT US		
	C)	Dipeptidyl tRNA from A-site			
	D)	tRNA from P-site to the A - s	ite		
49.	Whi	ch of the following drug inhib	its the ini	tiations step of translation?	
	A)	Tetracycline	B)	Streptomycin	
	C)	Cyclohexylamine	D)	Ricin	
120/25					
50.		proposed the wobble hypothe			
	A)	Samuel B. Weiss	B)	Nirenberg	
	C)	Darwin	D)	Watson and Crick	
51.	Wh	ich of the following is an exam	ple of an	nphoteric molecule?	
	A)	Sugars	B)	Acetic acid	
	C)	Water	D)	Malic acid	
52.	In n	resence of an acid, amino grou	ın can he		
32.	A)	Washed away	B)	Polarized	
	(C)	Protonated	D)	Replaced	
	C)	Totoliaca	,		
53.	Wh	at is the full form of pH?		- Linguist	
	A)	Proton of hydrogen	B)	Positron	
	C)	Positive hydrogen	D)	Potential Hydrogen	
21(A)		(11		[P.T.O
	,			STATE OF THE PARTY	

54.	As	olution having a pH of 6 l	nas a proton co	oncentration of:
	A)	0.6M	B)	10 ⁻⁶ M
	C)	10 ⁶ M	D)	6 M
55.	Ap	oenzymes dissociates from	n co-enzymes	due to
	A)	Change in substrate con	centration	
	B)	Change in pH		
	C)	Change in temperature		
	D)	Change in inhibitor con	centration	
56.	Nor	mal blood pH is:		
	A)	8.4	B)	7.2
	C)	7.4	D)	7.3
57.	Buf	fers react withi	ons.	
	A)	Magnesium, Calcium	B)	Sodium
	C)	Potassium	D)	Hydrogen, Hydroxyl
58.	Carl	bonic acid and bicarbonate	e ions buffer v	which of the following?
	A)	Cytoplasm	B)	Cytosol
	C)	Blood	D)	Lymph
59.		wound made by a surgeon	is known as	
	A)	Iatrogenic wound	B)	Defend wound
	C)	Incised wound	. D)	Offensive wound
(0	0			
60.		s anserina of rigor mortis		
	A)	Cremaster	B)	Biceps
	C)	Diaphragm	D)	Erector pilorum
			* The state of	

01.	Tau	oo marks desdroyed, then present		
	A)	Deep dermis	B)	Subcutaneous tissue
	C)	Lymph nodes Regional	D)	Underlying Muscle
62.	Mor	bid jealousy is seen with		ing and in the second state of the second se
6	A)	Alcoholism	B)	LSD addiction
	C)	Dementia	D)	Schizophrenia
63.	The	following wounds will heal without	out a so	car formation
	A)	Laceration	B)	Abrasion
	C)	Stab wound	D)	Chop wound
			1	
64.		ead body for autopsy is to be preser	ved in	a cold chamber whose preferred temperature
	is			
	A)	-4°C	B)	0℃
	C)	4°C	D)	10°C
0				
65.	The	shape of cooling curve pattern of	a hun	
	A)	Parabola	B)	Ascending
	C)	Descending	D)	Sigmoid
66.	Acı	ro - reaction test helps to identify	a	
	A)	Exit wound of filigree burn	B)	Exit wound of joule burn
	C)	Entry wound of joule burn	D)	Entry wound of filigree burn
67.	Wh	nich of the following specimen wa	s cho	sen by Mendel for his experiment?
	A)	Pisumsativum	B)	Drosophila
	C)	Fly	D)	Rat

	A)	Alternate forms of genes		
	B)	Characteristics of an organism		
	C)	Homologous chromosomes		
	D)	Pair of centrioles		
69.	Mar	k the INCORRECT statement ab	out mu	tation?
	A)	Major source of evaluation		
	B)	It is a reversible process		
	C)	Usually deleterious and recess	ive	
	D)	Mutation is predestined		
70.	Whi	ich of the following chemical mu	itagen a	affects only replicating DNA?
	A)	Alkylating agent	B)	Acridine dye
	C)-	Deaminating agent	D)	Base analog
71.		ne the term given to the type of ironment?	mutati	on which depends on the conditions of the
	A) ·	Conditional lethal mutation	B)	Reverse mutation
	C)	Forward mutation	D)	Gain of function mutation
72.	Whi	ich of the following statements is	NOT	rue regarding linkage group?
	A)	Linkage groups are not correlate	ted wit	h each other
	B)	Shown by linkage map		
	C)	Group of physically linked gen	es	
	D)	Represent a haploid number of	chrom	osomes
73.	Wha	nt is the maximum percentage of	recoml	pination frequency between two genes?
	A)	100%	B)	75%
, 516 T	C)	50%	D)	25%
21(A	()		(14)	NAME OF THE PROPERTY OF THE PARTY.

68. What is an allele?

	A)	50%	B)	100%	
	C)	25%	D)	23%	
75.	The	length of Amelogenin Locus in X-	-Chro	mosome is	
	A)	112 bp	B)	110 bp	
	C)	114 bp	D)	106 bp	
76.	The	chromosome pattern in Turner's s	yndro	me is	
	A)	XXY	B)	XXX	
	C)	XYY	D)	XO	
77.	The term "stutter" is usually used for DNA fragments that are				
	A) Three repeat unit shorter that the expected band B) Five repeat unit shorter that the expected band				
	C) One repeat unit shorter that the expected band				
	D)	Two repeat unit shorter that the e	xpect	ed band.	
78.	Whi	ch of the following is not a thermo	ostabl	e polymerase?	
	A)	Vent polymerase	B)	DNA polymerase III	
	C).	Taq polymerase	D)	Pfu polymerase	
79.	Why	Why are vent polymerase and Pfu more efficient than the Taq polymerase?			
	A)	Because of more efficient polyn	nerase	e activity	
	B)	Because of proof reading activit	у		
	C)	Both A and B			
	D)	None of the above			

74. Two genes are 70 cM apart, calculate the recombination frequency?

80.	Wh	ich of the following is true for asymmetric PCR?
	A)	Used for generating single - stranded copies for DNA sequence
	B)	Used for generating double - stranded copies for DNA sequence
	C)	Both A and B
	D)	None of the above
81.	Whi	ch of the following are electrophoretic artifacts?
	A)	Pull - Up Peaks
	B)	Allelic Dropout

- C) Spikes
- D) Both A and C

82. Which of the following are compound repeat STRs?

- A) FGA
- B) VWA
- C) D2S441
- D) All of the above

83. STR with repeat motif GATA is:

- A) D7S820
- B) D12S391
- C) D18S51
- D) TPOX

84. Among the following locus, select the pair of STR and SNP loci:

- A) TPOX and FGA
- B) D7S820 and D7S8
- C) LDLR and GYPA
- D) GC and HBGG

85.	wni	ch of the following sixt foct is as	cu io	Train Color rachimicano
	A)	MC1R	B)	KCNH2
	C)	SCN5A .	D)	None of the above
86.	The	most common polymorphic regio	ns of 1	the human mtDNA is:
	A)	HV1 and HV2	B)	HV1 and HV3
	C)	HV2 and HV3	D)	HV1
87.	Anti	- H lectin is prepared from the se	eed of	
	A)	Ulexeuropaeus		
	B)	Semecarpusanacardium		
	C)	Dolichosbiflorus		
	D)	Ricinuscommunis		
88.	Pros	state - specific antigen is also call	led as	
	A)	Amylase	B)	Ptylase
	C)	P30	D)	Protease
89.	The most common approach for the identification of faeces is		fication of faeces is	
,	A)	Ptylin	B)	Glycogen
	C)	Creatin	D)	Urobilinogen
90.	FT	A card can be used in		
	A)	Confirmatory test of blood		
*	B)	Collection and storage of blood	d	
	C)	Digestion of DNA		
	D)	Ligation of DNA		

91.	. Blo	Blood types are determined by					
	A)	A) Antibodies present in the plasma					
	B)	B) Antigens on the RBC membrane					
	C)	C) Glycoproteins on the RBC membrane					
	D)	D) By exposure to intestinal bacteria during infancy					
92.	Wh	Which of the following is not a red cell blood group system?					
	A)	HLA	B)	ABO			
	C)	Kell	D)	Duffy			
93.	MA	LT stands for					
	A)	Mucosal associated lymph term	inal				
	B) Muscular associated lymph tissue						
	C)	C) Muscular associated lymph terminal					
	D)	D) Mucosal associated lymph tissue					
94.	Acie	d phosphatase in male is secreted	by				
	A)	Islets of Langerhans	B)	Thyroid gland			
	C)	Pituitary gland	D)	Prostate gland			
95.	A no	argon with Domboy blood					
73.	A)	erson with Bombay blood group co A but not B antigen	ontain B)				
	C)	None of A, B and H antigen	D)	B but not H antigen All A, B and H antigen			
of and				7m7, 9 and 17 antigen			
96.	Whi	ch among the following is dimeric	c in na	ture			
	A)	IgG	В)	IgA			
	C)	IgM	D)	IgD			
			ט)	ABI CONTRACTOR			
21(A	1	TO THE REAL PROPERTY OF THE PARTY OF THE PAR	(10)				

97.	Eryt	throblastosisfetalis occurs, when						
	A)	Premature Rh positive baby is given a transfusion of Rh negative blood						
	B)	The fetus cannot make normal red blood cells						
	C)	Anti - Rh antibodies from the maternal circulation cross the placenta and agglutinate the fetal red blood cells.						
	D)	The fetus white blood cells are circulation.	re de	stroyed by antibodies from the maternal				
98.	Whi	Which of the Ig can pass through placenta and provide immunity to new born						
	A)	IgG	B)	IgA				
	C)	IgM	D)	IgD				
99.	The antibody - binding site is formed primarily by the							
	A)	Constant regions of H and L chains						
	B)	Hyper variable regions of H and L chains						
	C)	Hyper variable regions of H chains						
	D)	Variable regions of H chains						
100.	Whi	ch one of the following is express	ed on	antigen - presenting cell surface?				
	A)	IgE	B)	Class I MHC antigens				
	C)	Class II MHC antigens	D)	Interferon				
101.	Whi	ch is wrong for both Kastle - Mey	er and	d tetra methyl benzidine test?				
	A)	Both are presumptive test for blo	ood					
	B)	Both test use H ₂ O ₂						
	C)	Both tests are based on color change						
	D)	Both test leads to crystal formati	ion					

(19)

21(A)

[P.T.O.

102	. Per	oxidase like activity in tetrameth	yl ber	nzidine test is exhibited by
	A)	Albumin of blood	B)	Iron of hemoglobin
	C)	Globulin of blood	D)	Glacial acetic acid
103	. Wh	nich of the following statement(s)	is/are	wrong?
24	A)	Antigens of the ABO blood gro	up ar	e proteins
	B)	Antigens of the Rh blood group	are s	ugars
	C)	A but not B		
	D)	Both A and B		
104.	. Wh	ich of the following test is used to	deter	mine the species of origin from blood stai
	A)	Acid phosphate	B)	Immunoprecipitation
9	C)	Fluorescence	D)	Teichmanntest
105.	Wh	ich of the following tests is not a	cataly	tic color test for blood stain?
	A)	Luminol test	B)	O-toulidine
	C)	Tetramethyl benzidine	D)	Teichmann test
			a t i	
106.	Lun	ninol test can be used as		
	A)	Confirmatory test for blood	B)	Presumptive test for blood
	C)	Both of above	D)	None of above
107.		e test is used to detect	* *	
	A)	Blood	B)	Saliva
	C)	Urine	D)	Semen
108.	Wha	t color is observed in Jaffe test?		
	A)	Blue to deep black	B)	Dark purple
	C)	Green to light red	D)	Braun to orange

(20)

21(A)

109.	Which test is used to detect semen sample in case of azoospermia?						
	A) ·	P30 test	B)	Picric acid test			
	C)	Litmus test	D)	Jaffe test			
110.	α - 1	napthyl phosphate and Brentamin	e Fast	Blue is used to test			
	A)	Creatinine	B)	Haemoglobin			
	C)	Amylase	D)	Acid Phosphatase			

111.	Alte	rnate light source can be used to c	ietect				
	A)	Blood	B)	Saliva			
	C)	Semen	D)	All of above			
112.	12. Idiotypic determinants arise from the						
	A) Sequence of the heavy and light chain variable regions						
	B) Sequence of the light chain variable regions						
	C) Sequence of the heavy and light chain constant regions						
	D) Sequence of the constant chain variable regions						
113.	3. Endogenous antigens are processed through						
	A)	Endocytic pathway	B)	Cytosolic pathway			
	C)	Catalytic pathway	D)	Positive feedback pathway			
114.	Wes	tern blotting is used to detect					
	A)	Lipid	B)	Sugar			
	C)	DNA	D)	Protein			
115	. Wh	ich of following body fluid shows	the p	resence of Fibrin Degradation products?			
	A)	Menstrual blood	B)	Peripheral blood			
	C)	Nasal secretion	D)	Vomit			
210	A)		(21	[P.T.O.			

ere (D) Marakantan	Reduced phenolphthalein gives purple color
117. W	nich components of blood is responsible for haemin crystals in Teichmann test?
* A)	H. ANG NO THE SHOP IN A SHOP I
	Albumin and Globulin:
B)	Protoporphyrin ring of hemoglobin
C)	PGM and RBC
D)	Neutrophils of blood
118. Wh	ich among the following is not true for thymus
A THE PARTY WAS IN	
A)	It is site of T-cell development and maturation
B)	It is a primary lymphoid organ
C)	It is consisting of cortex and medulla
D)	Its size increases with age
119. 96 v	vell plates are used in
A)	Western blotting
B)	Southern blotting
C)	ELISA CONTRACTOR OF THE PROPERTY OF THE PROPER
D)	EF
120. Whi	ch among the following antibody shows highest avidity
A)	IgG
B)	IgE
C)	IgD
D)	lgM
w ÷	
21(A)	(22)

116. Which among the following is true about Kastle - Meyer test?

Reduced phenolphthalein gives pink color

Oxidized phenolphthalein gives green color

Oxidized phenolphthalein gives pink color

B)

C)

ROUGH WORK

21(A) [P.T.O.

ROUGH WORK

21(A) (24)