## DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO

### TEST BOOKLET SERIES

# TEST BOOKLET D.I.-2016



Time Allowed: 2 Hours]

All questions carry equal marks.

### INSTRUCTIONS

- Immediately after the commencement of the examination, you should check that 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. Encode clearly the test booklet series A, B, C or D as the case may be in the appropriate place in the answer-sheet.
- 3. Write your Roll Number only in the box provided alongside.

  Do not write anything else on the Test Booklet.
- This Test Booklet contains 100 items (questions). Each item comprises four responses (answers). Choose only one response for each item which you consider the best.
- 5. After the candidate has read each item in the Test Booklet and decided which of the given responses is correct or the best, he has to mark the circle containing the letter of the selected response by blackening it completely with Black or Blue ball pen. In the following example, response "C" is so marked:
  - (A) (B) (D)
- 6. Do the encoding carefully as given in the illustrations. While encoding your particulars or marking the answers on answer sheet, you should blacken the circle corresponding to the choice in full and no part of the circle should be left unfilled. After the response has been marked in the ANSWER SHEET, no erasing/fluid is allowed.
- 7. You have to mark all your responses ONLY on the ANSWER SHEET separately given according to 'INSTRUCTIONS FOR CANDIDATES' already supplied to you. Responses marked on the Test Booklet or in any paper other than the answer sheet shall not be examined.
- All items carry equal marks. Attempt all items. Your total marks will depend only on the number of correct responses marked by you in the Answer Sheet. There will be no negative marking.
- 9. Before you proceed to mark responses in the Answer Sheet fill in the particulars in the front portion of the Answer Sheet as per the instructions sent to you.
- 10. If 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.
- 11. After you have completed the test, hand over the Answer Sheet only, to the Invigilator.

			D.I20	16	
Time	Allo	wed: 2 Hours			[Maximum Marks: 100
1.	In t	the Drugs and Cosmo	etics Act and	Ru	es, the Schedule relating to GLP
	is:				
7	(A)	Schedule M		(B)	Schedule L1
	(0)	Sakadala M1	1 1	(T))	Cabadula D
Ç.,	(C)	Schedule M1		(D)	Schedule P
2.	Whi	ich separation techniq	que is suitable	for	simultaneous analysis of standards
	and	samples in a single	run ?		
	(A)	HPLC		(B)	GC
	(C)	TLC		(D)	UV
3.	The	following plant bar	k is used as	card	iotonic :
	(A)	Withania somifera		(B)	Terminalia bellerica
	(C)	Terminalia arjuna		(D)	Zingiber
4.	The	typical dry heat cond	lition employe	ed in	the sterilization of pharmaceutical
	pro	ducts:			
	(A)	250°C for 90 min		(B)	180°C for 30 min
F 1	(C)	100°C for 60 min		(D)	200°C for 45 min
D.I2	2016-	-A	2		

5.	Mat	ch the reagent wit	h major com	positio	on and select correct answer from
	the	codes given below			
1	(p)	Mayer		( <i>i</i> )	Potassium bismuth iodide
	(q)	Dragendorff's		(ii)	Iodine in potassium iodide
Art.	(r)	Wagner reagent	8 8	(iii)	Picric acid

(s) Hager reagent

(iv) Potassium mercuric iodide

Codes:

$$(p)$$
  $(q)$   $(r)$   $(s)$ 

- (A) (iv) (i) (ii) (iii)
- (B) (iii) (i) (ii) (iv)
- (C) (ii) (i) (iv) (iii)
- (D) (i) (iv) (ii) (iii)
- 6. For USP-content uniformity, out of 10 tablets, 9 tablets may contain X % and not more than Y% of labeled drug content:
  - (A) X = 75%, Y = 125%
- (B) X = 85%, Y = 115%

- (C) X = 65%, Y = 135%
- (D) X = 95%, Y = 105%

7. I	)ens	sity can be measured by	y the foll	owin	g apparatus :
	3	pr			
. (	A)	Soxhlet extraction		(B)	Karl Fischer Titrator
	3				This is a second of the
(	C)	Pycnometer		<b>(D)</b>	Distillation
8 1					
. י	The	most commonly used c	arrier gas	s in	gas chromatography:
(	A)	Hydrogen		(B)	Argon
. (	(C)	Helium	2	<b>(D)</b>	Neon
. 1	Mois	sture content of pharms	ceuticals	is d	etermined by :
			1.		
(	(A)	RP-HPLC	100	(B)	GC-FID
(	(C)	Karl Fischer method	* 3	(D)	None of these
				ŧ	
0. 4	All	the following are AIDS	tests, exc	cept	
*				*	
(	(A)	ELISA		(B)	Fuji
					* *
- (	(C)	RIA	a s	(D)	Western's test
).I20	16—	-A	4		

11.	In the Drugs and Cosmetics Act and	d Rul	es, the Schedule	relating	to	GM
	for non-allopathic (AYUS) is:				3.	
	(A) Schedule M	(B)	Schedule T			
	(C) Schedule S	(D)	Schedule M1		H	
12.	0.9% of NaCl isw	ith bl	ood plasma.			
	(A) Hypertonic	(B)	Hypotonic	E .		
	(C) Isotonic	(D)	None of these			
13.	The following carbohydrate is comm	nonly (B)	known as invert	sugar		78
	(A) Glucose (C) Lactose	(D)	120	10		F.
14.	USP stands for :	*				
	(A) United States Pharmacopoeia					
	(B) United States National Formu	ılary				
	(C) United States Pharmacopeia					
	(D) United States Nations Pharma	асоро	eia			

15.	Gov	ernment Analyst for Ayurve	edic, S	idda o	or Unani	drug	appoin	ted by	Central
	or S	State Government under :						<b>a</b>	
	(A)	Section 20		(B)	Section	1 33F			* JL
								- 1	
	(C)	Section 33G		(D)	Section	21			*
16.	Vita	amin A is:							
	(A)	Polyisoprenoid compound	with	β-ion	one rin	g			00 100
. 10	(B)	6-Hydroxychomane							
	(C)	Benzoquinone derivative							N .
7.	(D)	Coenzyme Q10					-		y 41
17.	Wha	at is the first eluted compou	nd in	norm	al, rever	sed pł	ase ch	iromat	tography
	resp	pectively ?	×		SI .			4	
	(A)	Polar, Non-polar	. 3				- 23	6	
ž,	(B)	Polar, Semi-polar					# # # # # # # # # # # # # # # # # # #		
	(C)	Non-polar, Polar			<b>X</b> 1				
	(D)	Semi-polar, Non-polar	*	* 100	· .	x.			
D L-9	016-	-A	6			1.1			

18.	1 gr	am is equal to how many g	grains?		
	(A)	30	(B)	15	
	(C)	5	(D)	60	
19.	One	tablespoonful is equal to:			31.7
	(A)	7.5 ml	(B)	10 ml	
	(C)	15 ml	(D)	30 ml	
20.	HPI	LC peak fronting is mainly	caused du	ie to :	
	(A)	Immiscible mobile phase	(B)	Column heating	
1	(C)	Sample overloading	(D)	All of these	
21.	All	the following are tests for a	imino acio	ds, except:	
	(A)	Biuret test	(B)	Millions reagent	test
	(C)	Xanthoprotic test	(D)	Molish test	
22.	In (	GC, derivatization of compo	unds is m	nainly for :	
	(A)	Remove impurities		5F	
3	(B)	Enable compound interact	ion with	carrier gas	1.69
F.	(C)	Improve thermal stability	of compo	unds	la ,
10	(D)	All the above			37
D.I2	2016–	-A	7		

P.T.O.

23. If the adult dose of a drug is 100 mg, what will be the dose for an in of 12 month's old?  (A) 8 mg (B) 8.33 mg (C) 5 mg (D) 7.69 mg  24. 'DS' means in a prescription:  (A) Repeat (B) Twice daily (C) Double strength (D) Daily	
(A) 8 mg (B) 8.33 mg (C) 5 mg (D) 7.69 mg  24. 'DS' means in a prescription : (A) Repeat (B) Twice daily	nfant
(C) 5 mg (D) 7.69 mg  24. 'DS' means in a prescription:  (A) Repeat (B) Twice daily	
24. 'DS' means in a prescription :  (A) Repeat (B) Twice daily	" a g
24. 'DS' means in a prescription :  (A) Repeat (B) Twice daily	
(A) Repeat (B) Twice daily	
	-
(C) Double strongth (D) Daily	
(C) Double strength (D) Daily	h.
25. Match the instrument with uses and select correct answer from the	codes
given below:	
(p) Rotary cutter mill (i) Ointment slurries	
(q) Ball mill (ii) Recycling of paper waste and p	olastic
(r) Roller mill (iii) Ophthalamics, parental	
(s) Hammer mill (iv) Extraction of fixed oils	
Cadan	2.1
Codes:	
(p) $(q)$ $(r)$ $(s)$	1
(A) (i) (iii) (iv) (ii)	x -
(B) (i) (ii) (iii) (iv)	
(C) (ii) (iii) (iv) (i)	
(D) (i) (iv) (iii) (ii)	
D.I2016—A 8	/4

26.	One kilogram is equal to :
, *	(A) 3.3 pounds (B) 4.4 pounds
	(C) 2.2 pounds (D) 3.0 pounds
27.	In diet of a diabetic patient, the recommended carbohydrate intake
	preferably:
	(A) Monosaccharides (B) Disaccharides
	(C) Polysaccharides (D) All of these
28.	Under anaerobic conditions the glycolysis of one mole of glucose yields
20.	moles of ATP.
	(A) 0
	(A) 3 (B) 2
	(C) 6 (D) 30
29.	Calcitriol is:
	(A) 1, 25-diOH cholecalciferol
- ,1	(B) 25-OH-cholecalciferol
	(C) 24, 25-diOH cholecalciferol
	(D) 1-OH-cholecalciferol
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30.	Biot	in is involved in the following reactions:
Į.	(A)	Deamination (B) Decarboxylation
	(C)	Carboxylation (D) Hydroxylation
1.5		
31.	The	sites for gluconeogenesis are:
	(A)	Skin and Pancreas
	(B)	Brain and Lung
le.	(C)	Kidney and Liver
	(D)	Lens of eye and Intestine
32.	The	following is a human dietary essential fatty acid:
	(A)	Stearic acid (B) Oleic acid
*.	(C)	Linoleic acid (D) Palmitic acid
33.	Insu	lin action on lipid metabolism :
*	(A)	Decreases lipolysis and increases triglyceride synthesis
	<b>(B)</b>	Increases lipolysis and decreases triglyceride synthesis
	(C)	Increases lipolysis and increases triglyceride synthesis
	<b>(D)</b>	Decreases lipolysis and decreases triglyceride synthesis
D.I2	2016—	A 10

34.	In a	pres	scripti	on P	C' me	ans:							
	(A)	Afte	er mea	als			(	B)	Powe	lered	comp	ound	
	(C)	Befo	ore sle	ер			(	D)	Daily	,	ĵ		
35.	'AC'	in a	prese	criptic	n me	ans :							
	(A)	Befo	ore ris	sing			. (	B)	Add	wate	•		
	(C)	Sha	ke we	11	*		C	D)	Befor	e me	als	×	
36.	Mat	ch th	e follo	wing	trace	element	ts wit	h th	eir us	es an	id sele	ect corr	ect answe
	fron	n the	codes	give	n belo	ow:				,			
	(p)	Zino	2			6	(1	i)	Biosy	nthe	sis of	T3 an	d T4
	(q)	Iodi	ne	27			G	ii)	Decr	eases	total	choles	terol
	(r)	Fern	ric an	moni	um ci	trate	(	iii)	Trea	ting i	ron d	leficien	су
	(8)	Chr	omiur	n			(	iv)	Bone	deve	elopm	ent	
	Code	s:											
		(p)	(q)	(r)	(8)								
. 4	(A)	(i)	(iv)	(iii)	(ii)		3						4
	(B)	(iv)	(i)	(iii)	(ii)				397			×	K 8
	(C)	(ii)	(i)	(iii)	(iv)			nil			*		
	(D)	(iv)	(iii)	(ii)	(i)		16.					a	
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37.	Mat	ch th	e follo	wing d	lental	produc	ts wi	th sui	table use	s and se	elect corr	ect an	swer
	fron	n the	codes	give	n belo	ow:	4						
	<b>(p)</b>	Sod	ium f	luorid	e	*		(i)	Astringe	ent and	dentin d	esensi	itizer
	(q)	Zino	Chlo	oride				(ii)	Preserv	ative fo	or denta	l cari	es
	(r)	Disc	odium	Edet	ate			(iii)	Treatme	ent for	lead po	isonin	g
	(s)	Cal	cium (	disodi	um E	detate		(iv)	Chelatin	ıg agent	in meta	l poiso	ning
Ť	Code	s:	,					, is					1 -
		<b>(p)</b>	(q)	(r)	(8)	8							¥:
	(A)	(iv)	(iii)	(ii)	(i)				*1				*
	(B)	(ii)	(i)	(iv)	(iii)	æ	100	, ,					
	(C)	(ii)	(i)	(iii)	(iv)	٠.,							
	(D)	(i)	(ii)	(iii)	(iv)	1			×		4		
38.	All	the f	ollowi	ng ar	e esse	ential a	amin	o acid	ds, which	canno	t be ma	de by	, the
	hun	nan b	ody,	except	:			*					
	(A)	Val	ine					(B)	Aspartio	e acid			
ĸ	(C)	Leu	cine			*		(D)	Isoleuci	ne	19		
D.I.	-2016–	-A			\$2.50 Li	341	12					¥	84

39.	Match the reagents useful for the follo	wing limit tests and select correct answer
	from the codes given below:	
	(p) Chlorides	(i) Hydrogen sulphide solution
	(q) Sulphates	(ii) Thioglycollic acid
	(r) Iron	(iii) Barium chloride
	(s) Heavy metals	(iv) Silver nitrate
	Codes:	
	(p) $(q)$ $(r)$ $(s)$	
	(A) (i) (iv) (ii) (iii)	· ·
	(B) (iv) (ii) (iii) (i)	
, 5	(C) (iv) (iii) (ii) (i)	
	(D) (i) (ii) (iii) (iv)	
40.	Which neuromuscular blocking age	nt is contraindicated in patients with
	glaucoma ?	
	(A) Gallamine	(B) Pancuronium
	(C) Succinylcholine	(D) Tubocurarin
41.	Which of the agonist would be used	for cardiogenic arrest, heart block ?
	(A) α1-agonist	(B) α2-agonist
	(C) β1-agonist	(D) β2-agonist
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42.	The	Inter	natio	nal Pl	harma	copoeia	is publ	ished by:		5.0	
	(A)	ICH				*	(B)	EMEA			
	(C)	WHO	)		1		(D)	UNESĆO			
43.	Mat	ch the	impo	tant s	side eff	ects of th	ne follov	ving drugs a	and select	correct	answer
	fron	the	codes	giver	belov	v :				4	- 1
	(p)	ACE	inhil	oitors	B1		(i)	Hepatotox	cicity		3 3
	(q)	Anti	psycho	otics			(ii)	Sedation		i.	
	(r)	Sita	gliptin	i e			(iii)	Dry cough	n		14
9	(8)	Anti	тв				(iv)	Coldness			
	Code	s:						7			* .
		<b>(p)</b>	(q)	(r)	(8)	9					
	(A)	( <i>i</i> )	(iv)	(ii)	(iii)	,,,,					
	(B)	(iii)	(ii)	(iv)	(i)						*
13	(C)	(ii)	(iii)	(iv)	(i)				186		
	(D)	(iii)	(ii)	(i)	(iv)	- 3		4			
44.	Wha	at is t	he re	ason	for pe	ak tailii	ng in H	IPLC ?	10		5 g 5
7	(A)	Stro	ng int	eracti	on of	the ana	ılyte wi	th mobile	phase	¥	2.5
	(B)	Stron	ng int	eracti	on of	the ana	lyte wi	th stations	ry phase	<b>;</b>	
	(C)	No i	nterac	tion	of the	analyte	with 1	mobile pha	se	¥	
	(D)	No i	nterac	tion	of the	analyte	with s	stationary	phase		
יפיד ת	116	Δ					1			8	

<b>45</b> .	Which of the below detected	or works on Wheatstone bridge principle?
. 1	(A) FID	(B) UV
1	(C) TCD	(D) Photomultiplier
1 1		
46.	What is the typical vacuum	n requirement to increase the mean-free path for
40.	What is the typical vacuum	n requirement to mercase the mean free past for
	reproducible fragmentation	of molecules in Mass Spectrometry?
	The second second	
n q	(A) $10^{-4} - 10^{-5}$ torr	
	(B) $10^{-2} - 10^{-3}$ torr	
	(B) 10 - 10 toll	
	(C) $10^{-1} - 10^{-2}$ torr	
0	(D) $10^{-8} - 10^{-12}$ torr	
	(D) 10 - 10 12 torr	
	*	
47.	How many drops constitut	te one tablespoonful ?
- 7	(A) 125	(B) 250
	(C) 80	(D) 500
¥ 1		
48.	One gallon is equal to:	
	S. X. E. S. A.	
	(A) 5 liters	(B) 3.78 liters
٠,	(A) 5 liters	(b) a.76 liters
	(C) 5.5 liters	(D) 4.97 liters
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BEF MERSE		

49.			cotic I	rugs	and Ps	ychotrop	oic Subs	tances (N	DPS) Act,	came int	o effec	t
	on	:		10								
	(A)	14.	11.198	5	6		(B)	16.9.198	5			
	(C)	15.	8.1986				(D)	26.9.198	6			
50.	Wha	at do	es 'Bl	D' in	a pres	eription	means	?		-		
	(A)	Tw	ice da	ily			(B)	After m	eals			
	(C)	Fiv	e time	es dai	ly		(D)	Four tir	nes daily			
51.	Mat	ch tl	ne follo	wing	dryers	with us	es and s	elect corre	ect answer	from th	e code	S
	give	n be	low:			· ·	+	13				
	(p)	Tra	y dry	er	14		(q)	Spray d	ryer			
	(r)	Flu	idized	bed	dryer	K	(s)	Vacuum	dryer		3	
	(i)	Laı	ger q	uantit	y of th	ermolal	oile, hy	groscopic	material t	to be dr	ied	
	(ii)	Sti	cky, pl	lastic,	crude	drugs,	tablet g	ranules e	tc			
	(iii)	He	at sen	sitive,	hygro	scopic,	drugs co	ontains to	xic solven	its		
	(iv)	Dry	ring of	fgran	ules ir	the pr	oduction	n of table	ets.		*	
	Code	s:				1.0						
		(p)	(q)	(r)	(8)							
	(A)	(i)	(iv)	(iii)	(ii)		3					
	(B)	(i)	(ii)	(iii)	(iv)	× *						
	(C)	(i)	(iii)	(iv)	(ii)							
ii.	(D)	(ii)	(i)	(iv)	(iii)						,	

52.	In P	harmacy, Expired d	rugs should	be st	ored separately in a	locked shelf.
	Bear	ring the following la	bel:	si.		
	(A)	"Expired Goods-No	For Sale"			
			*	. 4		
	(B)	"Expired Drugs"			1.0	,a · · · · ·
	(C)	"OLD drugs-Not Fo	or Sale"			
			- #			
	(D)	"OLD drugs"				
	(-)				4.8	
53.	IPR	India Act may be	called the :		•	
		*			× ×	
e y	(A)	WHO Act		( <b>B</b> )	Patents Act, 1970	
	(C)	IPR Act, 1970	- 1	(D)	Patents Act, 1940	<b>1</b>
54.	Und	er Indian Patent A	et, term of p	atent	from the date of fi	ling is:
	1120202020					
**	(A)	30 years		<b>(B)</b>	60 years	
			- 1.3		5	
	(C)	20 years		(D)	10 years	
				1		
<b>55</b> .	The	ratio of retention o	f two adjace	nt pe	aks is known as:	18
			10° 10°	*	n »:	
	(A)	Capacity factor		<b>(B)</b>	Separation factor	
r	(C)	Retention factor	8	( <b>D</b> )	нетр	
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56.	The	more	non-j	oolar	bonds (	Ex : C -	- C, C :	= C) v	will gi	ve rise	to the	e str	ongest
	bono	ds in	which	Spec	trum '	?				Yy 1.			
	(A)	VIS			, S		<b>(B)</b>	UV				*	
	(C)	Ram	nan				<b>(D)</b>	IR		9			
57.	Mat	ch the	e follo	wing	sodium	salts wi	th pha	rmace	eutica	l uses a	and se	lect o	correct
	ans	wer fi	rom t	he coo	les give	en belov	v :						E
	(p)	Sodi	ium t	hiosul	phate		(i)	Anti	dote	of cyar	nide		
a.	(q)	Sodi	ium b	enzoa	te		(ii)	Pow	erful	reduci	ng age	ent	
	(r)	Sodi	ium b	romid	е		(iii)	Fun	gistat	ic and	diagn	ostic	agent
	(8)	Sodi	ium n	netabi	sulphit	е	(iv)	As a	a seda	ative	90		
	Coc	les :	2					, ie					42
		(p)	(q)	(r)	(8)		4						
	(A)	(ii)	(i)	(iv)	(iii)								
	(B)	( <i>i</i> )	(iii)	(ii)	(iv)	Ι,						11 981	*
1	(C)	(i)	(iv)	(iii)	(ii)								
4.4	(D)	(i)	(iii)	(iv)	(ii)	: . · .							
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58.	SSR	Ι:			
		- ·		(P)	G
	(A)	Phenytoin		(B)	Sertraline
	(C)	Seratonin		(D)	Phenobarbital
				1	
					7 * * * * * * * * * * * * * * * * * * *
59.	Anti	icancer drug belong	gs to inorgani	ic me	etal complex :
		14			Market Cartella Se
1	(A)	Dacarbazine	4 4	(B)	Methotrexate
				4	100
	(C)	Cisplatin		(D)	Vincristine
					A. A. Marian and
			17.		
60.	The	drug used for ma	laria chemopr	ophy	laxis and treatment:
				**	
2	(A)	Quinidine		(B)	Quinine
- 1			- 1 to 1 to 2		
	(0)	Chlanaguina	- 1	(D)-	Sulfonamides
	(C)	Chloroquine		(1).	Sunonamides
			- 28		
61.	Tetr	acycline hydrochlo	ride is never	advis	ed to be taken with milk, because
			114		
	Tetr	acycline is inactiva	ted by		present in the milk.
			TO A		
	(A)	Magnesium		(B)	Potassium
	(11)	Magnesium		(13)	, ,
	A SUPPLIES	Service of the servic	1 1 1	Special Control	
14	(C)	Calcium	1-	(D)	Iron
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		97.4			

62.	NSAID:		
7	(A) Ramipril	(B)	Telmisartan
	(C) Celecoxib	(D)	Diazepam
63.	A sample of paracetamol tablets chai	im to	have 500 mg of paracetamol. But
		180	
	after analysis by Govt. analyst, it was	s foun	d to contain 200 mg. As per Drugs
	and Cosmetics Act, this product wou	ald be	e categorized as :
en Service S			
	(A) Adulterated drug	(B)	Misbranded drug
	(C) Spurious drug	(D)	Unethical drug
/ n .		3	
64.	An inorganic ion which is prophylac	cticall	y used in bipolar depression is :
1			
	(A) Chromium	(B)	Lithium
=			
5 2	(C) Valproate	(D)	Valium
D.I20	016—A 20		

<b>65</b> .	Whic	h of the f	ollowing A	ACE inh	ibitors is	not a pr	odrug?		
	٠						V.	5	(B)
	(A)	Benzepril			(B)	Captopril			e -
	(C)	Quinapril			( <b>D</b> )	Ramipril			
66.	Sulf	onamides :			4 7 4		F		1
				- 1 x				*	*
	(A)	Antibiotic		K.,					
	(B)	Bacteriost	atics						
	(C)	Bactericid	al						
- 1	(D)	Antiviral			39				
67.	The	following	ayurvedic	plant le	aves and	roots use	d for hair	growth	tonic:
	er ag	To the							, Y,
	(A)	Aloe vera			<b>(B)</b>	Saraca i	ndica		
	(C)	Curcuma	longa		(D)	Eclipta a	alba		4
D.I2	016–	-A	4.		21			g	P.T.O.

68.	Whi	ch water is used for	hand washing in	a change room	of man	nufactu	ring
- 12				11.00		3:	
	unit	7		* * * ·			
			V 2	A TOTAL	3		-91
	(A)	Soap water	(B)	Distilled water			
		a					
	(C)	Deionized water	(D)	Potable water	-		
4		Deloinzed water	(1)	Totable water		1	P
			=	*			4714
69.	The	following Schedules	s include shelf life	of drugs?		T. 18. p	
	(A)	Schedule F	(B)	Schedule M			
			5.87			4 4	
	(C)	Schedule G	(D)	Schedule P			
			. 3	2 4 4			
70.	IR a	bsorption of ester of	carbonyl group :			*	
			*	a			1
	(A)	3590 cm <sup>-1</sup>	(B)	$1700 \text{ cm}^{-1}$			
				1. In P			4 50
3	(C)	$1735 \text{ cm}^{-1}$	(D)	$3030 \ {\rm cm}^{-1}$			
DIO	010		00	A	i ii	y a	
D.I2	010-	A	22				

		bsorption of l		Ü				
			- 4	94				7
	(A)	$3590 \text{ cm}^{-1}$				(B)	1700	$ m cm^{-1}$
							ş G	
-	(C)	$2500 \text{ cm}^{-1}$	4			(D)	1200	) cm <sup>-1</sup>
	7-4			4	a			*
2.	Acet	conitrile UV c	ut-off w	avele	ngth	:		
					-		Ų	2.8
	(A)	215 nm			90	(B)	190	nm
					100			
		010				· (D)	040	
	(C)	210 nm			1.0	(L)	240	nm
		-8 -			4	74		
3.	Ioni	zing agent in	MALD	Ι:	the same	15		
						-		
,				i.				
	(A)	Electrons						4.
		18			: 13			
	(B)	Laser beam				ne la		
		1						
	or I	15 	17. 11.200.00					
	(C)	High temper	rature	- 27		-	,	
	72-				110			100
	<b>(D)</b>	Reagent gas	namentaria di	univers.			28	

74.	No.	of protons present in	n TMS is:	1,500		
0	(A)	10	a	B) 4		
	(11)			-, -	100	
v.	4					
	(C)	12	(1	D) 9		
4						
<b>75</b> .	The	most intense peak i	n mass spectr	um is l	known as	2 4 1
1.2	¥ ,				A torrid	
	(4)	M + 1 Peak		DV M	. O Daala	
	(A)	W + 1 Peak		B) IVI	+ 2 Peak	
			The Late	100		7.16
K- 45	(C)	Base Peak	0	D) Mo	lecular ion	peak
	1					1
76.	Maj	or pharmacological a	ction of Ephe	drine :	alone to	The second
						less 1
. 1		77.1		100	1.5	
ě,	(A)	Kidney failure				4
						10
V	<b>(B)</b>	Anti-inflammatory				31.1000
	7.8			- 1		
	. ~					
	(C)	Heart failure				
			Mar and all			4
	<b>(D)</b>	Bronchial asthma				- 4
				ul.		
D.I2	016—	A	24			e. [

		- 4				
77.	The concentration of lead in a v	vater samj	ple is repor	ted as 5 p	om. Expres	S
					Y N	
	the concentration in percentage					
	and concentration at perconsage					
			4			
	(A) 0.00005%	(B)	0.005%			
			104	9		
4.		3.000	A THE RESERVE OF THE PARTY OF T	0.00		
	(C) 0.05%	( <b>D</b> )	0.0005%		2	
			1 h 1 m			
78.	In gas chromatography which	detector	is most se	nsitive to	halogenate	1
			100		104	
	compounds:		ed water			
1			Total State of	Thy is		8
		15				
	(A) TCD	(B)	FID .			
					4	
	(C) FOD	(T))	NPD	100		
120	(C) ECD	(D)	MLD			
		×				
79.	The speed regulating device of	the dissolu	ition annar	atus should	l be canabl	6
15.	The speed regulating device of	one dissort	mon uppur	diab biloui	· vo cupuo.	
, T	of maintaining the speed within	the	of	limits (USI	e) of selecte	i
- 1				2.4		
	speed.	- , - 3				
			- !			
128			. 41 +4			
1553	$(A) \pm 10\%$	(B)	+ 3%			
			16.7			
			P.W			
	(C) ± 4%	(D)	± 5%		9 9 9 S	
		2.1	·	1.0	n m c	
D.I	2016—A	25	6.1		P.T.C	

80.	Which of the following mass analyzers	have a wide mass range and can be					
¥1	war against in their mass measurem	onto 2					
	very accurate in their mass measuren	ients :					
,							
	(A) Time-of-flight (1	B) Ion trap					
	(C) Quadrupole (I	D) Both (A) and (C)					
	(c) Quadrapole	b) Bour (A) and (C)					
		The transfer of the second second					
81.	Who was the first European to draw attention to the history of the Western						
	Himalayas ?						
		A Park Salar Salar					
	(A) François Bernier						
	<del></del>						
ε,							
	(B) Thomas Coryat						
	(C) Alexander Cunningham						
	(D) Viene						
1	(D) Vigne						
l,							
82.	What was the title of Thakurs of the fan	nilies of Tibetan origin who held Lahul					
	on Ingir ?						
	as Jagir ?						
		And the second of the second o					
	(A) Po (1	B) Jo					
	(C) Tso	D) Ko					
nio	016—A 26						
D.14	20						

83.	Whe	en was the capita	al of Chamb	a princel	y state shifted	from Brahr	napura
	to C	Chamba ?				and the	
			1.00				
	(A)	8th Century		(B)	9th Century		
1.1				P. W. C.	19		
1 = 3	(C)	10th Century	3	(D)	11th Century		
				4			
84.	In v	which district of	H.P. is Dero	sidh Be	aba Rudru ?	90 a	477
	E.						
	(A)	Hamirpur		(B)	Kangra		1
)4 =			44				
	(C)	Una		(D)	Bilaspur		8
			se e		1.6	8	
85.	Whi	ch mountain pas	s joins Kin	naur and	Tibet ?	8 3	
			**				
	(A)	Shipki		(B)	Hamtah		
						* 4 4	
	(C)	Jalsu	1 - 1 - 1	(D)	Dulchi		
D.I2	016—	-A		27			P.T.O.

86.	In which dist	rict of H.P. is	Mantilai la	ke?	4	6.7
			45			-
	(A) Kinnaur		(B	) Chamba	- **	*
-						-4
	(C) Kullu		(D	) Shimla		-
		N.		4		
87.	In which Dist	trict of H.P. is	s Lipa Asrar	g sanctuary?		w: 00 =
				3		
	(A) Chamba		(B	) Sirmaur		
					La Carte	
	(C) Una		(D)	) Kinnaur		
	18 T		18			
88.	In which rive	er basin is Gaj	j hydro-powe	r project ?	ari i i	
			17.75			
	(A) Yamuna	9	(B)	Beas		
		e				
	(C) Ravi		(D)	Satluj	99	2
*	1, 1, 1, 5			* di	, i.	
89.	Which princ	ely state wa	as the epic	entre of 'Bho	ai Do Na I	Pai Do'
				*		
	movement ?			All L		4
					9	
	(A) Kehlur		(B)	Bushahr		±i.
	N W Te					
	(C) Sirmaur	*	(D)	Mandi	40	
DT 0	016 4		00	3 21 4 4 4		7
D.120	016—A		28			

90.	According to 2015-16 Econ	omic Survey how many services have been covered
n ing		
	under Service Guarantee	Act in H.P. ?
	(4) 76	(B) 86
	(A) 76	( <b>B</b> ) 30
Se T		
	(C) 96	(D) 106
24		
5 200		, 1 1 1 9
91.	When was 'Make in Indi	a' campaign launched ?
3	(A) September 2014	
	· · · · · · · · · · · · · · · · · · ·	
•)	(B) October 2014	
	(C) September 2015	
	(D) None of the above	
92.	In which district of Kers	ala is Puttingal Devi temple?
32.	III WINCH district of fact.	
	(A) Kottayam	(B) Kannaur
		(D) N P 11
	(C) Kollam	(D) None of these
	2010 4	29 P.T.O.
D.1.	-2016—A	20

93.	With which of the following is I	Deepa Kai	rmakar associated	
21				
	(A) Boxing	(B)	Wrestling	
			1.0	
	(C) Gymnastics	(D)	Hockey	
			Ver	
94.	To which political party does Mel	hbooba M	ufti, the first woma	n CM of J and
0 4.	20 Handa Paristan Paristan			
) X	K, belong?		In the second	# 1 a f
				A
	(A) BJD	(B)	RJD	
				2.00
	(C) JDU	(D)	PDP	
	(0) 000	(2)		XI a.
05	0 0 1 1 2 2 1 1 2 2 2 2 1	(T::-:- 9		4
95.	On the bank of which river is	Ojjain r		
				*
	(A) Saryu	(B)	Kosi	1. The second
ž	(C) Kshipra	<b>(D)</b>	Chambal	
	W W		4 7 . 4	
O.C	Who was declared the Man of the	o Sorioe ir	the ICC World To	venty 20 Series
96.	Who was declared the Man of the	e beries ii	Title 100 World 1	venty 20 beries
	held in 2016 ?			
ν.	49	e *	41	100
	(A) Marlon Samuels	(B)	Virat Kohli	*
	(A) Marlon Samuels	(B)	virat Kolili	T. A.
		T Conserve	Note that the second state of	
	(C) Ross Taylor	(D)	A B de-Villiers	1 8 6 6 9
DI-S	2016—A	30		
		7070		

97.	Suppor	t of approxir	nately how	many dele	gates is needed to	get Democratic
	Party	nomination i	n the US	Presidentia	Elections 2016	?
	(A) 2	383		(B)	3238	14 6 25 1
	(C) 3	467		(D)	4763	
					1.0	
98.	Which	day is obser	rved as Tia	ananmen S	quare Day?	
8 1		- 6		- 175		5 X 21
	(A) J	anuary 16		(B)	February 21	and the same of th
*					15	* , ×
53	(C) . I	May 01		(D)	June 02	
		•	100		A CONTRACTOR OF THE PARTY OF TH	
		100				
99.	Which	muslim boy	was arrest	ed in the U	Inited States for p	oossessing a clock
	awan sa sakara ay sakara				162	9 a x
	which	looked like	a bomb ?			
	(A) I	Muhammad A	Afzal	(B)	Shabir Qureshi	
	(C)	Ahmed Moha	med	(D)	Hamid Mohame	ed
100.	Which	country in	Central A	merica has	No coastline on	the north Pacific
	Ocean	ı ?			31.	
g. 4	(A)	Honduras		(B)	Nicaragua	
		1 E.				
	(C)	Belize		(D	Guatamala	
Хж. ж	(0)	Dellac		- 1		W. Carrier
D.I	2016—A	Δ.		31		P.T.O.