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

TEST BOOKLET SERIES

TEST BOOKLET D.I.-2016



Time Allowe	d: 2 H	[ours]			187	[Maximum	Marks:	100
	S		N CONTRACTOR	8.				
To the state of th							**	

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.
- 4. 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.
- 8. 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	Allov	wed: 2 Hours]		4	[Maximum Marks: 100
1.	In t	he Drugs and Cosm	netics Act and	l Rul	les, the Schedule relating to GLP
	is:				
# # *	(A)	Schedule M		(B)	Schedule L1
1	(C)	Schedule M1		(D)	Schedule P
2.	Whi	ch separation techni	que is suitable	e for	simultaneous analysis of standards
	and	samples in a single	e 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 con-	dition employ	ed in	the sterilization of pharmaceutical
	prod	lucts:			
	(A)	250°C for 90 min		(B)	180°C for 30 min
k s . k	(C)	100°C for 60 min		(D)	200°C for 45 min
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5.	Mat	ch the reagent with major co	mposition a	nd select correc	t answer from
4.	the	codes given below:			,
	(p)	Mayer	(i) Pot	tassium bismutl	n iodide
	(q)	Dragendorff's	(ii) Iod	line in potassium	m iodide

- (r) Wagner reagent
- (s) Hager reagent

- (iii) Picric acid
- (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%

•	Den	a 185 9		
	/ A N	G 11-4	(B)	TZ = 1 TB' = 1 TB'44
*) *)	(A)	Soxhlet extraction	(B)	Karl Fischer Titrator
	3			
30	(C)	Pycnometer	(D)	Distillation
逛	9		en o	
	The	most commonly used ca	rrier gas in	gas chromatography:
	(A)	Hydrogen	(B)	Argon
	15			
8.5	(C)	Helium	(D)	Neon
225	(C)	Helium	(D)	Neon
23	(C)	Helium	(D)	Neon
•		Helium		
•				
•		sture content of pharma		letermined by :
	Mois	sture content of pharma	ceuticals is o	determined by :
•	Mois (A)	sture content of pharma	ceuticals is o	determined by :
	Mois (A)	sture content of pharma	ceuticals is o	determined by : GC-FID
· •	Mois (A) (C)	sture content of pharma	ceuticals is (B)	determined by : GC-FID None of these
	Mois (A) (C)	sture content of pharma RP-HPLC Karl Fischer method	ceuticals is (B)	determined by : GC-FID None of these
	Mois (A) (C)	sture content of pharma RP-HPLC Karl Fischer method	ceuticals is (B)	determined by: GC-FID None of these
	Mois (A) (C) All	RP-HPLC Karl Fischer method the following are AIDS	ceuticals is o (B) (D)	determined by : GC-FID None of these
	Mois (A) (C) All	RP-HPLC Karl Fischer method the following are AIDS	ceuticals is o (B) (D)	determined by : GC-FID None of these :

11.	In the	e Drugs and Cosmetics Act a	nd Rul	es, the Schedule rel	ating to GMP
	for no	on-allopathic (AYUS) is:		E E	
8	(A)	Schedule M	(B)	Schedule T	
	(C)	Schedule S	(D)	Schedule M1	
12.	0.9%	of NaCl is	with bl	ood plasma.	
	(A)	Hypertonic	(B)	Hypotonic	
	(C)	Isotonic	(D)	None of these	en e
13.	The	following carbohydrate is con	nmonly	known as invert su	ıgar :
*	(A)	Glucose	(B)	Fructose	
	(C)	Lactose	(D)	Sucrose	6 18
14.	USP	stands for:			
	(A)	United States Pharmacopoeia	a		
	(B)	United States National Forn	nulary	*	an an
it.	(C)	United States Pharmacopeia	67.5	847	* = 5
	(D)	United States Nations Pharm	macopo	eia	e e
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15.	Government Analyst for Ayurvedic, Sidda or Unani drug appointed by C	entral
	or State Government under:	
3	(A) Section 20 (B) Section 33F	*
e.	(C) Section 33G (D) Section 21	
16.	Vitamin A is:	N W 1
	(A) Polyisoprenoid compound with β-ionone ring	
•	(B) 6-Hydroxychomane	
	(C) Benzoquinone derivative	
* *	(D) Coenzyme Q10	
17.	What is the first eluted compound in normal, reversed phase chromatog	raphy
-	respectively ?	* .
	(A) Polar, Non-polar	k je
	(B) Polar, Semi-polar	
3)	(C) Non-polar, Polar	= × = *
	(D) Semi-polar, Non-polar	
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18.	1 gr	am is equal to how many grai	ns ?	
4 E	(A)	30	(B)	15
	(C)	5	(D)	60
19.	One	tablespoonful is equal to:	Ģ.	
	(A)	7.5 ml	(B)	10 ml
	(C)	15 ml	(D)	30 ml
20.	HPI	C peak fronting is mainly cau	sed dı	ie to:
a 9.	(A)	Immiscible mobile phase	(B)	Column heating
	(C)	Sample overloading	(D)	All of these
21.	All	the following are tests for amin	no aci	ds , except :
	(A)	Biuret test	(B)	Millions reagent test
£.	(C)	Xanthoprotic test	(D)	Molish test
22.	In (GC, derivatization of compound	s is n	nainly for:
	(A)	Remove impurities		a
	(B)	Enable compound interaction	with	carrier gas
1	(C)	Improve thermal stability of	compo	unds
11	(D)	All the above	** ·	
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23.	If th	e adu	ılt do	se of a	a dru	g is 1	00 m	g, wł	nat will be the	dose for an infant
	of 12	2 mon	nth's	old?						
	(A)	8 mg	3	* *	8			(B)	8.33 mg	
	(C)	5 mg	3		el er		ē	(D)	7.69 mg	
24.	'ns'	mean	ng in	a pres	script	ion :				
21.				a pro	Sorrips			(D)	The deller	
	(A)	Repe	eat				, - ·	(B)	Twice daily	* * * * * * * * * * * * * * * * * * * *
	(C)	Douk	ole st	rengtl	ı			(D)	Daily	
						. "				C 13 1
25.	Mat	ch the	e inst	rumei	nt wi	th use	es and	d sele	ect correct answ	er from the codes
	give	n belo	ow:		190			2.		*
		D 4	2000-201 (V ₂ -200		.211			(;)	Ointment slur	ios
	(p)	Kota	ry cu	tter r	niii			(i)	Omment start	les
,	(q)	Ball	mill					(ii)	Recycling of pap	er waste and plastic
	(r)	Rolle	er mi	11	iai	(F)		(iii)	Ophthalamics,	parental
	(8)	Han	nmer	mill		T (E)		(iv)	Extraction of	fixed oils
	C-1-								a a	7 8
**	Code	S			8 8		19		32	
	* F	(p)	(q)	(r)	(s)				St.,	
*	(A)	(<i>i</i>)	(iii)	(iv)	(ii)				- · · · · ·	
(4.1	(B)	(<i>i</i>)	(ii)	(iii)	(iv)		20 [#]	*		
	(C)	(ii)	(iii)	(iv)	(i)					
	2867 27	100 20	d.							
	(D)	(i)	(iv)	(iii)	(ii)			*		
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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	(A) Monosaccharides	(B) Disaccharides
*	(C) Polysaccharides	(D) All of these
28.	Under anaerobic conditions the glyc	olysis of one mole of glucose yields
ig.	moles of ATP.	
	(A) 3	(B) 2
	(C) 6	(D) 30
29.	Calcitriol is:	
**	(A) 1, 25-diOH cholecalciferol	
	(B) 25-OH-cholecalciferol	
	(C) 24, 25-diOH cholecalciferol	
E .	(D) 1-OH-cholecalciferol	
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30.	Bioti	in is involved in the following reactions:
	(A)	Deamination (B) Decarboxylation
Fig.	(C)	Carboxylation (D) Hydroxylation
***	1922	
31.	The	sites for gluconeogenesis are:
B :	(A)	Skin and Pancreas
	(B)	Brain and Lung
7907 25	(C)	Kidney and Liver
2 K 5	(D)	Lens of eye and Intestine
32.	The	following is a human dietary essential fatty acid:
	(A)	Stearic acid (B) Oleic acid
5.	(C)	Linoleic acid (D) Palmitic acid
33.	Insu	din action on lipid metabolism:
2	(A)	Decreases lipolysis and increases triglyceride synthesis
a N	(B)	Increases lipolysis and decreases triglyceride synthesis
8	(C)	Increases lipolysis and increases triglyceride synthesis
18	(D)	Decreases lipolysis and decreases triglyceride synthesis
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(8)

(1.00)

34.	In a	pres	cripti	on P	C' me	ans:	141			
	(A)	Afte	r mea	ıls			(B)	Powdered con	npound	74
	(C)	Befo	re sle	ep			(D)	Daily		¥
35.	'AC'	in a	preso	riptio	n me	ans :				
	(A)	Befo	re ris	ing			(B)	Add water		
	(C)	Shal	ke we	11	*		(D)	Before meals	¥	
36.	Mat	ch the	e follo	wing	trace	elements	s with th	eir uses and se	elect corre	ct answe
	fron	n the	codes	give	n belo	ow:	**	4 j.s.		
	(p)	Zinc	8 90			1	(i)	Biosynthesis	of T3 and	T4
	(q)	Iodi	ne	-		7 3	(ii)	Decreases total	al choleste	erol
	(<i>r</i>)	Ferr	ric am	moni	um ci	trate	(iii)	Treating iron	deficienc	у
	(8)	Chro	omiun	n			(iv)	Bone develop	ment	
	Code	s:							*	
		(p)	(q)	(r)	(8)					
a g	(A)	(i)	(iv)	(iii)	(ii)		er C		*	7.0
	(B)	(iv)	(<i>i</i>)	(iii)	(ii)			•	S	
	(C)	(ii)	(i)	(iii)	(iv)					
	(D)	(iv)	(iii)	(ii)	(i)				Χ,	
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37.	Match the following dental products with suitable uses and select correct answ	er
2	from the codes given below:	Ą
, r	(p) Sodium fluoride (i) Astringent and dentin desensitize	er
	(q) Zinc Chloride (ii) Preservative for dental caries	-
	(r) Disodium Edetate (iii) Treatment for lead poisoning	3 "
	(s) Calcium disodium Edetate (iv) Chelating agent in metal poisonir	ıg
. 3	Codes:	9
	(p) (q) (r) (s)	
	(A) (iv) (iii) (ii) (i)	
*	(B) (ii) (i) (iv) (iii)	92
	(C) (ii) (i) (iii) (iv)	
	(D) (i) (ii) (iii) (iv)	
38.	All the following are essential amino acids, which cannot be made by the	ie
(*) *: (b)	human body, except:	
	(A) Valine (B) Aspartic acid	
(B) .	(C) Leucine (D) Isoleucine	
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39.	Match the reagents useful for the following limit tests and select correct answer								
	fron	n the	codes	give	n bel	ow:	#1 X1		
	(p)	Chlo	orides					(i)	Hydrogen sulphide solution
	(q)	Sulp	hates	;				(ii)	Thioglycollic acid
	(r)	Iron	L	TATE OF THE PARTY.				(iii)	Barium chloride
	(8)	Hea	vy me	etals			Ř e	(iv)	Silver nitrate
	Code	s:	3				*	=	
		(p)	(q)	(r)	(8)				
	(A)	(i)	(iv)	(ii)	(iii)				`
	(B)	(iv)	(ii)	(iii)	(i)		¥X		
. 4	(C)	(iv)	(iii)	(ii)	· (i)	a		.8 (180	
	(D)	(i)	(ii)	(iii)	(iv)				a
40.	Whi	ch ne	eurom	uscul	ar bl	ocking	g ager	nt is	contraindicated in patients with
	glau	coma	? .		25		18.		
4	(A)	Gall	amine	•			1 3	(B)	Pancuronium
	(C)	Succ	inylch	noline				(D)	Tubocurarin
41.	Whi	ch of	the a	gonis	t wo	uld be	used	for	cardiogenic arrest, heart block ?
	(A)	α1-a	gonist	t		o.		(B)	α2-agonist
	(C)	β1-a	gonist	;				(D)	β2-agonist
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42.	The	e International Pharmacopoeia is published by:	
,	(A)	ICH (B) EMEA	
	(C)	WHO (D) UNESCO	j.
43.	Mate	atch the important side effects of the following drugs and select cor	rect answer
	from	m the codes given below:	· · · · · ·
	(p)	ACE inhibitors (i) Hepatotoxicity	T a
	(q)	Antipsychotics (ii) Sedation	
	(<i>r</i>)	Sitagliptin (iii) Dry cough	(a) (a) (b)
<u>18</u>	(s)	Anti TB (iv) Coldness	
	ode	es:	
		(p) (q) (r) (s)	0
	(A)	(i) (iv) (ii) (iii)	
	(B)	(iii) (ii) (iv) (i)	
	(C)	(ii) (iii) (iv) (i)	
	(D)	(iii) (ii) (i) (iv)	
44.	Wha	nat is the reason for peak tailing in HPLC?	
	(A)	Strong interaction of the analyte with mobile phase	
D.	(B)	Strong interaction of the analyte with stationary phase	
	(C)	No interaction of the analyte with mobile phase	e de la companya de l
1	(D)	No interaction of the analyte with stationary phase	
D I -90	116	Λ 14	

45	XX71. *	ch of the below detect	on wonka o	~ XX/L	a a statana	bridge pri	nciple ?	
45.	WING	n of the below detect	OI WOLKS OF	1 441	leatstone	bridge pri	ncipie :	
	(A)	FID		(B)	UV			
	(C)	TCD		(D)	Photomul	tiplier		M
46.	Wha	t is the typical vacuu	m requireme	ent t	o increase	the mean	-free pat	h for
	repr	oducible fragmentation	of molecu	les i	n Mass S	oectrometr	у?	
				III				, n
Roje	(A)	$10^{-4} - 10^{-5}$ torr	, 14 , 187		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	(B)	$10^{-2} - 10^{-3}$ torr						* 1
	(C)	$10^{-1} - 10^{-2} \text{ torr}$					W 1910 1	
61 (9)	(D)	$10^{-8} - 10^{-12} \text{ torr}$			Tap	· · · · · · · · · · · · · · · · · · ·	A	
47.	How	many drops constitu	te one table	espoo	onful ?		• •	
	- 9						:461	WI
	(A)	125	F = * m	(B)	250			
			- 3				1	10
	(C)	80		(D)	500			- No.
× 11							×	F
48.	One	gallon is equal to:						9
		K (2 a k	7				¥	
	(A)	5 liters		(B)	3.78 liter	· s		
	(C)	5.5 liters		(D)	4.97 liter	rs		
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49.	The	Nar	cotic I	rugs	and Pa	sychotro	opic	Subst	tances (1	NDPS)	Act, car	ne int	to effect
-	on	:		(6)			¥						
	(A)	14.	11.198	5	. 3			(B)	16.9.19	85			
	(C)	15.8	8.1986		*			(D)	26.9.19	86	1 8		
50.	Wha	at do	es 'Bl	D' in	a pre	scription	on m	eans	?		19	2	
	(A)	Twi	ice da	ily		A		(B)	After n	neals		4	
	(C)	Fiv	e time	es dai	ly		2. 2	(D)	Four t	imes da	aily		F 7 E -
51.	Match the following dryers with uses and select correct answer from the codes												
	give	en be	low:						7 28 8	-	1		
	(p)	Tra	y dry	er			ží.	(q)	Spray	dryer			
	(r)	Flu	idized	bed	dryer	e s		(8)	Vacuur	n drye	c .		**
	(<i>i</i>)	Lar	ger q	uantit	y of t	hermol	abile	, hyg	groscopio	mater	ial to	be dr	ied
	(ii)	Stic	ky, pl	astic,	crude	drugs	, tab	olet g	ranules	etc	*		
	(iii)	Hea	t sen	sitive,	hygr	oscopic,	, dru	gs co	ntains	toxic so	olvents		
* 2.	(iv)	Dry	ring of	gran	ules i	n the j	prod	uction	of tab	lets.			*
	Code	s:										-	
	ų,	(p)	(q)	(r)	(8)		· .			* 0			P. H.
2	(A)	(<i>i</i>)	(iv)	(iii)	(ii)			ė.	2	i i	8 2		2
	(B)	(i)	(ii)	(iii)	(iv)	• •	36 g	*		Ta.			
	(C)	(i)	(iii)	(iv)	(ii)						<i>≅</i>	7	
	(D)	(ii)	(i)	(iv)	(iii)	, H.						91	
					61	*,							

52 .	In P	harmacy, Expired	drugs should	be st	ored separately in a lock	xed shelf.
	Bear	ring the following	abel:	9		
	4.7		9.			
	(A)	"Expired Goods-No	ot For Sale"			8 (
				n		* **
*	(B)	"Expired Drugs"				
		*		(4)		ψ.
	(C)	"OLD drugs-Not H	for Sale"	1 (2)		N N
	,					
	(D)	"OID 1"			× 1	
	(D)	"OLD drugs"	*			
			#E		•	
53.	IPR	India Act may be	called the:		1	
F-1		*				
1 -4	(A)	WHO Act		(B)	Patents Act, 1970	
	(C)	IPR Act, 1970		(D)	Patents Act, 1940	
	, ,		136	,,	**************************************	
E 4	T T	on Indian Datant A	at tamm of m	atant	from the data of filing	ia .
54 .	Una	er indian Fatent A	ct, term of p	atent	from the date of filing	18.
				960	n a Carlotte of the carlotte o	
	(A)	30 years		(B)	60 years	
a 3						
	(C)	20 years		(D)	10 years	View of
			6 5	-		8
55 .	The	ratio of retention	of two adjace	nt pe	aks is known as:	
00.			or one adjace	P		
			. K	(D)	0 0 .	(1)
	(A)	Capacity factor	g	(B)	Separation factor	
A			B 12			- 5
	(C)	Retention factor		(D)	HETP	
			40	· .		
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56.	The more non-polar be	onds (Ex : C - C	C, C =	C) will gi	ve rise to t	he strong	est
	bonds in which Spect	crum ?			# # # # # # # # # # # # # # # # # # #	29	
er e	(A) VIS		(B)	UV		·	
	(C) Raman		(D)	IR			
57.	Match the following so	odium salts with	phai	rmaceutica	l uses and s	elect corr	ect
	answer from the code	es given below	:			36 1 0	
i t	(p) Sodium thiosulp	hate	(i)	Antidote	of cyanide		•
	(q) Sodium benzoate	e	(ii)	Powerful	reducing a	gent	
	(r) Sodium bromide		(iii)	Fungistat	ic and diag	nostic age	ent
	(s) Sodium metabis	ulphite	(iv)	As a seda	ative		×.
	Codes:		H 12 8	3 **	e e é	= = = = = = = = = = = = = = = = = = =	
* ±	(p) (q) (r)	(s)	3		76 84		
B	(A) (ii) (i) (iv)	(iii)			#		
	(B) (i) (iii) (ii)	(<i>iv</i>)				,	
5	(C) (i) (iv) (iii)	(ii)	*	•			4
94 (m.)	(D) (i) (iii) (iv)	(ii)					6
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58.	SSR	lija:			
	(A)	Phenytoin		(B)	Sertraline
	(C)	Seratonin		(D)	Phenobarbital
			6'		
59.	Anti	cancer drug belongs	to inorgani	c me	tal complex :
7	2		* * * * * * * * * * * * * * * * * * * *	4, 4	
	(A)	Dacarbazine	# * * * * * * * * * * * * * * * * * * *	(B)	Methotrexate
	(C)	Cisplatin		(D)	Vincristine
	**				
60.	The	drug used for mala	ria chemopre	ophyl	axis and treatment:
	- T		*		
6	(A)	Quinidine		(B)	Quinine
	(C)	Chloroquine		(D)·	Sulfonamides
61.	Tetr	acycline hydrochloric	de is never a	dvise	ed to be taken with milk, because
				, I	
	Tetr	acycline is inactivate	ed by	•••••	present in the milk.
	(4)	Magnagium		(B)	Potassium
	(A)	Magnesium		(D)	1 Otassium
1	(C)	Calcium		(D)	Iron
		31		(2)	700 700
1).15	2016 -	-A	19		P.T.O.

62.	NSA	AID:		
	(A)	Ramipril	(B)	Telmisartan
	(C)	Celecoxib	(D)	Diazepam
63.	A sa	ample of paracetamol tablets	chaim to	have 500 mg of paracetamol. But
22 %	1			
	afte	r analysis by Govt. analyst, i	t was foun	d to contain 200 mg. As per Drugs
	31			
	and	Cosmetics Act, this product	t would be	e categorized as:
	(A)	Adulterated drug	(B)	Misbranded drug
5	(C)	Spurious drug	(D)	Unethical drug
-	14		- 3	
64.	An	inorganic ion which is prop	hylacticall	y used in bipolar depression is:
2.4				
	(A)	Chromium	(B)	Lithium
1	1			
	(C)	Valproate	(D)	Valium
D.I2	016—	A	20	

65.	Whic	ch of the following ACE inhibitors is not a prodrug?
	*	
	(A)	Benzepril (B) Captopril
	*	
	(C)	Quinapril (D) Ramipril
66.	Sulf	onamides:
16		
4	(A)	Antibiotics
	**	
	.5	
	(B)	Bacteriostatics
2	(C)	Bactericidal
9 8		
#1 (*	(D)	Antiviral
67.	The	following ayurvedic plant leaves and roots used for hair growth tonic:
	26	
	Y -0	
× 1	(A)	Aloe vera (B) Saraca indica
*		
ar dina		
· .	(C)	Curcuma longa (D) Eclipta alba
D.I2	016-	-A 21 P.T.O.

68.	Whic	ch water is used for	r hand was	hing in	a change room	of mar	nufacti	ıring
		w B			± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ±	*	e\$0	- 5
*	unit	?				a."	· 4-8	•
	(A)	Soap water		(B)	Distilled water			61 581
* **	(C)	Deionized water		(D)	Potable water	·		
	• •	e e e e e e e e e e e e e e e e e e e		F.E.				#12
69.	The	following Schedule	s include sl	nelf life	of drugs ?			
- 1	(A)	Schedule F		(B)	Schedule M		(E)	빞
200			th and the			3- 31		
	(C)	Schedule G		(D)	Schedule P		B:	***
70.	IR a	bsorption of ester	carbonyl gr	oup:		# #	- Sag	,
			E cons	8			, 1	
	(A)	3590 cm^{-1}		(B)	1700 cm^{-1}	*		
	(C)	1735 cm ⁻¹		(D)	$3030~\mathrm{cm}^{-1}$	v' .	# N	*
D.I20	16—.	A	2	2		*		77

71.	IR a	bsorption	of hydro	oxyl gro	oup of	alcoh	ol:
				ħ			
. 8	(A)	3590 cm	-1	8 6	× = = = = = = = = = = = = = = = = = = =	(B)	1700 cm^{-1}
t		*** == == == == == == == == == == == ==		5 8 5 54	a 9		2 8
1877 1847	(C)	2500 cm	-1	a	2. <u>É</u> 21.	(D)	1200 cm^{-1}
		20			e)		#
72.	Acet	onitrile U	V cut-of	f wavel	ength		
12.	71000	·	, car or	in a the Mississen assets	*	5 3	8 V E
		2	*		Tr.		# # # # # # # # # # # # # # # # # # #
	(A)	215 nm	3 8		154 200	(B)	190 nm
9 W 6					it _{to}	*	5 n _8 u
e -	(C)	210 nm	2	0	-	(D)	240 nm
		5 250 5 4	3 A S		*	13 E	z = 0
72	Ioni	zing agen	t in MA	LDI ·	4 0	e) 25	
13.	10111	zing agen	U 111 1V17X			©.	E a
94				6		±	55
	(A)	Electron	s	8			e si
	e ⁸⁰	1 10	W L	\$ ************************************	- 3	40 40	w .
	(B)	Laser be	eam				1 19 12
3	13	100	₹ 8		13 83	a	
	(C)	High ter	mperatur	e ,	×	×	
	ē		# # # # # # # # # # # # # # # # # # #	*	T SH		
	(D)	Reagent	gaseous	ions		ice .	25 E

74.	No. of protons present in TM	IS is :	3 8
	(A) 10	(B) 4	20 20 20 27
×	(C) 12	(D) 9 *	
*			
7 5.	The most intense peak in ma	ass spectrum is known as	
и 4			
	(A) M + 1 Peak	(B) M + 2 Peak	
2 18			
Ng 8	(C) Base Peak	(D) Molecular ion	peak
5 ¹⁶			
76.	Major pharmacological action	of Ephedrine:	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	(A) Kidney failure		
E 1244			- S
Λ· .	(B) Anti-inflammatory		, St. 19647
# 83			
**	(C) Heart failure		
*			84 < si ²⁰
	(D) Bronchial asthma		
			A
D.I	2016—A	24	126

74.

77.	The concentration of lead in a water sample is reported as 5 ppm. Express			
	the concentration in percen	ntage:		
	(1)	(D) 0.00F@		
	(A) 0.00005%	(B) 0.005%		
	(C) 0.05%	(D) 0.0005%		
- 1				
78.	In gas chromatography w	hich detector is most sensitive to	halogenated	
	compounds:			
			r e	
	(A) TCD	(B) FID		
	(A) IOD	(3) 112		
	(C) ECD	(D) NPD		
28				
70	mi	of the dissolution apparetus should	d be capable	
79.	The speed regulating device	e of the dissolution apparatus should	d be capable	
			D) C 1 1 1	
*	of maintaining the speed wi	thin the of limits (US	P) of selected	
7.5	speed.	•	10	
wit.				
	(A) ± 10%	(B) ± 3%		
	(A) <u>+</u> 10%	(2) ± 0.0		
	$(C) \pm 4\%$	$(D) \pm 5\%$		
i <u>Landar</u>			n m o	
1) I9	2016—A	25	P.T.O.	

80.	Which of the following mass analyzers ha	ave a wide mass range and can be
	very accurate in their mass measuremen	nts ?
	(A) Time-of-flight (B)	Ion trap
	(II) Illie of hight	ion trap
	(C) Quadrupole (D)	Both (A) and (C)
81.	Who was the first European to draw atte	ntion to the history of the Western
	Himalayas ?	
-		
¥	(A) François Bernier	
	(A) Francois Bermer	
Y-1		
.9	(B) Thomas Coryat	
	(C) Alexander Cunningham	
	(D) Vigne	
\$67		
E		
82.	What was the title of Thakurs of the famili	es of Tibetan origin who held Lahul
	as Jagir ?	
	(A) Po (B)	Jo
_ 16/	(C) Tso (D)	Ko
D.I20	016—A 26	in the second se

83.	Whe	n was the capital of Chamba	a princel	y state shifted t	from Brahmapura
	to C	hamba ?			
				10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	(A)	8th Century	(P)	9th Century	
	(A)	oth Century	(B)	oth Century	
	(C)	10th Century	(D)	11th Century	
200 8					
			g 33		
84.	In v	which district of H.P. is Dera	Sidh Be	aba Rudru ?	
20					- 1
					1 1
*:	(A)	Hamirpur	(B)	Kangra	6 2°
	(C)	Una	(D)	Bilaspur	1, 2, 3
	(0)	Olla	(D)	Dilaspui	
	1			* 1	
05	*****	1	33	mul 9	
85.	wni	ch mountain pass joins Kinn	aur and	libet !	
	50 °				
	(A)	Shipki	(B)	Hamtah	9-85 g
#					
			= 10	.,	
	(C)	Jalsu	(D)	Dulchi	
D.I2	016	Α	27		Р.Т.О
J.12	010	••			2.2.0

86.	In which district of H.P. is Ma	antilai lake	. 7		E
*	(A) Kinnaur	(B)	Chamba		
	(C) Kullu	(D)	Shimla		
87.	In which District of H.P. is Li	pa Asrang	sanctuary?		
	(A) Chamba	(B)	Sirmaur		
	(C) Una	(D)	Kinnaur	ř.	
		1 1		2 1 0 MI	
88.	In which river basin is Gaj hy	dro-power	project ?		<i>y</i> (
	(A) Yamuna	(B)	Beas		
	(C) Ravi	(D)	Satluj	*	
					9 1 T
89.	Which princely state was t	the epicer	ntre of 'Bhai	Do Na	Pai Do
	movement ?				
	(A) Kehlur	(B)	Bushahr		+
	(C) Sirmaur	(D)	Mandi	*	· ·
D.I20	016—A	28		* .	-4

90.	According to 2015-16 Economic Survey how many services have been	covered
1.7		
	under Service Guarantee Act in H.P.?	
		7 27
	(A) 76 (B) 86	
))) (4)		
3 *		
	(C) 96 (D) 106	
14		
0.1	Mala in India' compaign launched ?	31. E
91.	When was 'Make in India' campaign launched?	
		-8 R
1	(A) September 2014	
	(II) September 2021	
	(B) October 2014	£ .
*	(C) September 2015	7
		± 9
	(D) None of the above	
00	In which district of Kerala is Puttingal Devi temple?	
92.	In which district of Kerala is I uttingar Devi tempte.	* 1 × ×
*		
	(A) Kottayam (B) Kannaur	
	(1), 1200003	
*: 12	(C) Kollam (D) None of these	
D.I	2016—A 29	P.T.O.

93.	With which of the following is	Deepa Ka	rmakar associated ?
1.		3.4	
	(A) Boxing	(B)	Wrestling
*	(A) Boxing	(D).	Wiesting
N			
	(C) Gymnastics	(D)	Hockey ·
0.4	m 121 122 122 1 1 1 1 1 1 1 1 1 1 1 1 1	11 1 27	C: 11 C 1 OM CI 1
94.	To which political party does Me	enbooba M	ufti, the first woman CM of J and
8	K, belong?		
- *	(A) BJD	(B)	RJD
	(11) 1501	(2)	
	(C) JDU	(D)	PDP
0.5	On the hand of subject missen in	Iliioin 2	
95.	On the bank of which river is	Ojjani :	
		8 1912 V	
	(A) Saryu	(B)	Kosi
		41	
		(\$\dag{\dag{\dag{\dag{\dag{\dag{\dag{	
	(C) Kshipra	(D)	Chambal
96.	Who was declared the Man of the	ne Series 11	n the ICC World Twenty 20 Series
	held in 2016?		
4		. · · · · · · · · · · · · · · · · · · ·	
	(A) Marlon Samuels	(B)	Virat Kohli
	(A) Marlon Samuels	(D)	virat ixonii
*	.e. x		
	(C) Ross Taylor	(D)	A B de-Villiers
*	***************************************	28.0-22.00 10	
D.I2	2016—A	30	

97.	Support of approximately h	ow many deleg	gates is needed to get	Democratic
	Party nomination in the U	S Presidential	Elections 2016 ?	
	(A) 2383	(B)	3238	
	(C) 3467	(D)	4763	
		r val ja "d		
98.	Which day is observed as	Tiananmen So	uare Day?	
	(A) January 16	(B)	February 21	
	(C) May 01	(D)	June 02	
99.	Which muslim boy was arr	ested in the U	nited States for posse	ssing a clock
	which looked like a bomb			
	(A) Muhammad Afzal	(B)	Shabir Qureshi .	
	(C) Ahmed Mohamed	(D)	Hamid Mohamed	
100.	Which country in Central	America has	No coastline on the	north Pacific
	Ocean ?			
				
	(A) Honduras	(B)	Nicaragua	20 4 8
	(C) Belize	(D)	Guatamala	
D.I	2016—A	31		P.T.O.