Mu	ltiple	Choice C	luestion	is :		
(1)	Hea	adquarter	of India	n Pharma	copoeia Commiss	sion is
	(a)	Ghaziab	ad	(b)	Hyderabad	
	(c)	Delhi		(d)	Gandhinagar	
(2)	Thi	rd edition	of IP v	was recon	stituted under t	the chairmanship
	of_	The second secon				
	(a)	B. N. Gh	osh	(b)	B. Mukerji	
	(c)	R. N. Ch	opra	(d)	Nityanand	
(3)	Rad	liopharma	ceutical	Monograp	hs are included	in edition
	of I	ndian Pha	rmacopo	oeia.		
	(a)	2017		(b)	2014	
	(c)	2010		(d)	All of above	-
(4)	Indi	an Pharm	acopoeia	a is publis	hed by	•
	(a)	Indian P	harmaco	opoeia Coi	mmission	
	(b)	Indian P	harmaco	poeia Coi	mmittee	
	(c)	Indian Pl	harmaco	poeia Cou	uncil	
	(d)	None of	above			
(5)	One	of the foll	owing i	s not part	of monograph	•
	(a)	Assay		(b)	Molecular form	ıula
	(¢)	Storage		. (d)	None of above	
Insi	wers :	:				
1)	(a)	(2)	(d)	(3)	(b) (4)	(a)
5)	(d)	,				

Mult	iple	Choice Questions	:	,
(1)	Imp	urities in pharmaceu	tical pr	reparation may be due to following
	sour	ces		
	(a)	Raw material	(b)	Manufacturing process
	(c)	Solvent	(d)	All of the above

(2)		water if free f	rom o	rganic impurities.
,		Tap water	(b)	Demineralized water
	( )	Di Allad water	(d)	None of above
(3)		Indian Pharmacopoeia	, the y	rellow colour standard is prepared
, ,	usi	ng·		Cobaltous chloride
	(a)	Ferric chloride		
	(c)	Cupric sulphate	(d)	Copper sulphate
(4)			t test (	of chloride to prevent precipitation
		$Ag_2CO_3$ .	(h)	Dil. HNO <sub>3</sub>
		NaCl		Dil. HCl
	(c)	AgNO3	(a)	constituent of barium sulphate
(5)			not a	constituent of barium sulphate
		gent	(h)	$K_2SO_4$
	121	Ethanol		Dil. HCl
	(c)	BaCl <sub>2</sub>		n of barium sulphate reagent to
(6)		is added in preparent super saturation.	aratio	II of barram say
				$K_2SO_4$
	(a)	Ethanol	(d)	a & b
	(c)	BaCl <sub>2</sub> ous th <u>i</u> oglycollate is _		
(7)			(b)	Pink
	(a)	Colourless		••
	(c)	Purple	(d)	
(8)	Thio			test of iron because
	(a)	It provides acidic me		
	(b)	It reduces ferric iron		
	(c)	It gives purple color	ed co	mplex with iron
	(d)	b & c		
(9)	One	of following is true fo	or lim	it test
	(a)	It semi-quantitative	metho	od
	(b)	Designed to identify	small	quantities of impurities
	(c)	Designed to control s	small	quantities of impurities
	(d)	All of above		

The second second second		A STATE OF THE PARTY OF THE PAR	Maria and American Company of the Co				The same of the latest and the lates		
(10)	One of the following limit tests is based on comparison of color.								
	(a)		of sulphate						
	(b)	Limit test	Limit test of chloride						
	(c)	Limit test	of iron						
	(d)	а& с							
(11)	The	arsenic fre	e reagents	are d	esignated a	s	•		
	(a)	AsT		(b)	ArR				
	(c)	ArT		(d)	None of al	oove			
(12)	Struc	cture of ars	senic acid i	s	· ·				
	(a)	$H_3AsO_3$		(b)	$AsH_3$				
	(c)	$H3AsO_4$		(d)	$H_2AsO_4$				
(13)	Pota	ssium cyan	ide is used	l in li	mit test of				
	(a)	Iron		(b)	Lead				
	(c)	Heavy me	tals	(d)	Arsenic				
(14)	Lead	-dithizone	complex is	5	in col	or.			
	(a)	Purple		(b)	Red				
	(c)	Violet		(d)	Green				
(15)	Limi	t test for H	leavy Meta	ıls is (	carried out	to ide	entify an	d con	trol
	of _	impı	ırities.						
	(a)	Mercury		(b)	Bismuth				
	(c)	Cadmium		(d)	All of abo	ove			
Ansv	vers	:							
1.	(d)	2.	(c)	3.	(a)	4.	(b)	5.	(d)
6.		7.	(a)	8.	(d)	9.	(d)	10.	(d)
	-	12.		13.	(b)	14.	(b)	15.	(d)
11.	(d)	14.	(~)						

	Muli	iple (	Choice Questions :						
•	(1)		In Bronsted - Lowry concept acid is						
		(a)	proton donor		electron donor				
		(c)	proton accepter						
	(2)	HSA			es according to properties of				
		(a)	size		polarizability				
		(c)	charge	(d)	all of these				
	(3)	As p	er HSAB Hard acids h	ave _	. •				
		(a)	lower polarizability	(b)	higher electronegativity				
		(c)	both the above	(d)	none of the above				
	(4)	Acid	ic solution has pOH $\_$						
		(a)	between 7 to 14	(b)	between 1 to 7				
		(c)	between 1 to 14	(d)	none of above				
	(5)	One	of the following is tru	ue for	boric acid				
		(a)	It is a very weak aci	It is a very weak acid					
		(b)	1.9 % w/v of boric a	cid in	water is isotonic with body fluids				
		(c)	It readily forms este	r wit	h glycerol				
		(d)	All of above						
	(6)	One	of the following is no	ot a sy	nonym of boric acid				
		(a)	Hydrogen borate	(b)	Borilenic acid				
		(c)		. ,	Orthoboric acid				
	(7)				olumes of water may be used as a				
		gasti	ric acidifier in achlorl						
		(a)	Hydrochloric acid						
			Phosphoric acid						
	(8)	Mole	ecular formula of pho						
		(a)	$H_3PO_2$		$H_3PO_3$				
		(c)	1.3. 5		$H_3PO_4$				
	(9)	One	of the following is no	ot a u	se of H <sub>2</sub> SO <sub>4</sub> .				
		(a)	Oxidizing agent						
		(b)	Sulfonating agent						
Dr.			and the same of the same and the	/ Fly	E M Brokery I Don T To Brown Sorger rate				

	(c)	in reparation of pyro	xylin	
	(d)	Reducing agent		
(10)	Caus	tic Potash is a synony	m for	·
,		КОН	(b)	NaOH
		Ca(OH) <sub>2</sub>	(d)	None of above
(11)	Solva	ay process is the meth	od fo	or preparation of
		кон	(b)	NaOH
	(c)	NaHCO <sub>3</sub>		Na <sub>2</sub> CO <sub>3</sub>
(12)	One	of the following is no	t a m	ethod of adjusting isotonicity:
,		Cryoscopic Method		
	(b)	Sodium Chloride Equ	ivalei	nt (E) Method
	(c)	White - Vincent Meth	nod	
	(d)	Leblanc method		
(13)	Buff	er capacity (?) can be	calcu	lated using equation
	(a)	$\beta = \frac{\Delta B}{\Delta p H}$	(b)	$\beta = \frac{\Delta B}{\Delta pOH}$
	(c)	$\beta = \frac{\Delta pH}{\Delta B}$	(d)	None of above
(14)		_ is used as buffer in	ophtl	nalmic preparation.
	(a)	Sodium bicarbonate	(b)	Magnesium carbonate
	(c)	Sodium citrate	(d)	Borate
(15)	One	of the following is inc	orrec	t for Arrhenius acid base concept
	district the second second second	_•		
	(a)	The presence of water to be acid or base	er is a	bsolutely necessary for substance
	(b)	It cannot explain acid AlCl <sub>3</sub> , FeCl <sub>3</sub>	ic cha	racter of some metal salt like BF <sub>3</sub>
	(c)	Arrhenius base is a form hydroxide (OH		ance that dissociates in water to s.
	(d)	None of above	•	

Answers :

1. (a) 2. (d)

3. (c)

(a) 4.

5. (d)

6. (b) 7.

8.

(d)

(a)

(d) 9.

10. (a)

11. (d)

12. (d)

(a) 13.

14. (d) 15. (d)

Muli	tiple (	Choice Questions :		
(1)	mEq		prese	ent in one liter of 0.585 % w/v
	(Equ	iivalent weight of NaC	l = 58	3.5 g/equivalent)
	(a)	100	(b)	10
	(c)	1000	(d)	1
(2)	Norr	nal plasma level of so	dium	ion is mEq/L
	(a)	4	(b)	0.75
	(c)	1 - 2	(d)	142
(3)	Whi	ch of the following is	not a	major physiological ion
	(a)	Chloride	(b)	Sodium
	(c)	Potassium	(d)	Iron

(4	One of the following is not a function of magnesium							
	(a) it is required for release of neurotransmitters							
	(b	(b) it participates in bone formation						
	(c)	it is the componants	s of m	any coenzyems as cofactor				
	(d) it plays an important role in protein synthesis							
(5)	)	is assayed by modi	ified v	olhard's method.				
	(a)	Sodium chloride	(b)	Potassium chloride				
	(c)	Calcium chloride	(d)	None of above				
(6)		is not a electrolyt	te use	d in Acid–Base Therapy.				
	(a)	Sodium Acetate	(b)	Sodium chloride				
	(c)	Potassium Citrate	(d)	Sodium bicarbonate				
(7)	Rin	ger's lactate solution d	loes n	ot contains				
	(a)	sodium ion	(b)	chloride ion				
	(c)	potassium ion	(d)	zinc				
(8)	One	of the following is inc	correc	t for potassium chloride				
	(a)	Prepared by the action potassium carbonate		nydrochloric acid on a solution of				
	(b)	An aqueous solution	is net	atral to litmus				
	(c)	Its assay is based on	Mohr	's method				
	(d)	It is yellow colored c	rystal	line powder				
(9)	Calc	ium Pantothenate						
	(a)	is also known as Vita	min E	35				
	(b)	is determined by non	-aque	eous method of titration				
	(c)	has molecular formul	a C <sub>18</sub> 1	H <sub>32</sub> CaN <sub>2</sub> O <sub>10</sub>				
	(d)	all of above		2 10				
(10)		ch of the following set	of ing	redients is correct for Oral rehy-				
	(a)	Sodium chloride, Po Calcium, lactate	tassii	um chloride, Calcium chloride				
	(b)	Sodium chloride, Pota Sodium citrate	assiun	n chloride, Sodium bicarbonate,				

	(c)	Sodium chloride, Potassium chloride, Sodium bicarbonate, Magnesium chloride							
	(d)	Sodium chloride, Potassium chloride, Calcium lactate, Sodium citrate							
(11)	Cont	rol of pH is	not carrie	ed out	hy follow	ing me	chanism		
	(a)	Buffering S	ystems	(b)	Liver	ing me	Cilamini		<u> </u>
	(c)	Respirator	y Centre	(d)	Kidnevs				
(12)	Meta	bolic alkalo	sis is trea	ted w	ith				
	(a)	Sodium bio	carbonate	(b)	Sodium a	icetate			
	(c)	Sodium cit	rate	(d)	Ammoniu	ım chlo	oride		
(13)		is officially						od.	
	(a)	Potassium	citrate	(b)	Calcium	chlorid	e		
	(c)	Sodium cit	rate	(d)	None of	above			
(14)		_ can be use					ic acidifi	er an	d as
	an e	lectrolyte r	eplenisher	•	,	<i>y</i>			
	(a)	NH <sub>4</sub> Cl		(b)	NaCl				
	(c)	NaHCO <sub>3</sub>		(d)	All of ab	ove			
(15)	Peri	toneal dialy	sis fluid d	loes n	ot contain	ı			
	(a)	Sodium ch	ıloride	(b)	Sodium	lactate			
	(c)	Sodium ac	cetate	(d)	Magnesi	um chl	oride		
Ansv	wers	:							
1.	(a)	2.	(d)	3.	(d)	4.	(a)	5.	(a)
6.	(b)	7.	(d)	8.	(d)	9.	(d)	10.	(b)
11.	(b)	12.		13.	(c)	14.	(a)	15.	(c)
	. ,								

M	ultipl	e Choice Questions	:	Leagan fluorida wa
(1	) N	aF is prepared by inter	action	of 40% w/v hydrogen fluoride with
	ar	n equimolar amount o	f	
	(a	) Sodium hydroxide	(b)	Sodium bicarbonate
	(c	) A and b both		None of above
(2)	) M	olecular formula of Ti	n fluor	ide is
	(a	) SnF <sub>2</sub>		SrF <sub>2</sub>
	(c)	StF <sub>2</sub>		SnF
(3)	)	is contraindicated	l in pa	tients with renal disease, a history
	of	urinary calculi and hy	perter	nsion.
	(a)	SnF <sub>2</sub>		NaF
	(c)	CaCO <sub>3</sub>	(d)	Na <sub>2</sub> PO <sub>3</sub> F
(4)		is a substance of v		
	(a)	Pumice	(b)	Zinc Chloride
	(c)	Eugenol	(d)	White Rosin
(5)	One	e of the following is n	ot a p	olishing agent
( )	(a)	CaHPO₄	(b)	NaF
	(c)	CaCO <sub>3</sub>	(d)	NaPO <sub>3</sub>
(6)	Gra	ham's Salt is a synon	ym for	•
	(a)	Sodium Monofluoro		
	(b)	Sodium Meta Phosp		
	(c)	Calcium carbonate		
	. ,	Dibasic Calcium Pho	sphate	e
(7)			=	constituent of Zinc Oxide-Eugenol
(7)		ent	not a t	onstituent of Zine Oxide Lagons
	(a)	Zinc acetate	(b)	Zinc stearate
		Zinc oxide		
(0)			(d)	Zinc chloride
(8)		ntium Chloride is		
	(a)	dentifrice	(b)	polishing and cleaning agent
	(c)	desensitizing agent	(d)	all of above

Calcium carbonate can be determined by \_\_\_\_\_. (9)

Complexometric titration (a)

Mohr's method (b)

(c) Volhard's method

(d) Non aqueous titration

(10) Molecular formula for Calcium Pyrophosphate is \_\_\_\_\_\_.

(a)  $Ca_2P_3O_7$ 

(b)  $Ca_2P_2O_5$ 

(c)  $Ca_2P_2O_7$ 

(d)  $Ca_3P_2O_7$ 

Answers:

(c) 1.

2.

(a)

3.

(c)

(a)

(b) 5.

(b) 6.

**7.** (d)

8.

(c)

**9.** (a)

10. (c)

mu	upic	Choice Questions.							
(1)	One	One of the following is not true for antacid							
	(a)	It should be a laxative							
	(b)	It should give rapid onset of action and the effect should be							
		for longer duration							
	(c)	It should have buffer action between pH ranges of 4 to 6							
5	(d)	It should be stable for long	ger p	eriod and readily available					
(2)	One	of the following is not an a	ntaci	d					
	(a)	Sodium bicarbonate (b) Aluminium hydroxide gel							
	(c)	Calcium carbonate	(d)	Milk of bismusth					

(3	) Th	e molecular i	formula for Kaol	in is	·
-			0 2H <sub>2</sub> 0		$Al_2O_3$ 3SiO $2H_2O$
			0 2H <sub>2</sub> O		None of above
(4			um Tartarate is	used	as
•	(a)			(b)	antacid
	(c)	) antidote		_	antimicrobial agent
(5	) Or	ne of following	g is not correct i	for m	nilk of magnesia
	(a)		ueous suspensio	n of	hydrated magnesium oxide
	(b)		not be kept in a		
	(c)	It is used a	as an antacid		
	(d)	) None of ab	oove		
(6)	) Pro	ecipitated cha	lk is a synonym	for _	·
	(a)	MgCO <sub>3</sub>		-	CaCO <sub>3</sub>
	(c)	$Al2(CO_3)_2$		(d)	ZnCO <sub>3</sub>
(7)	On	e of the follow	wing is the use o	of ma	ngnesium oxide
	(a)	It is used a	as an antacid and	d lax	ative.
	(b)	It is an ing acid and ch		rsal	antidote along with tannic
	(c)	used as an i	ingredient of too	th po	wder due to its mild abrasive
	(d)	All of above	e		
(8)	Sim	ethicone is _	·		
	(a)	antacid		(b)	defoaming agents
	(c)	astringent		(d)	none of the above
(9)	One	of the follow	wing is true for	alur	minium containing antacids
	-	_ ·			_
	(a)	Is classes of	f non systemic a	ıntac	ids.
	(b)	Are widely	used and are bu	ıffer	in the pH range 3 - 5.
	(c)	Due to the		ımini	ium ion produce astringent
	(d)	All of above		4	

(10)	) Exa	mple of Emollient Laxatives is												
	(a)	Liquid pa	Liquid paraffin											
	(b)	Disodium	Hydro	gen Phos	phate									
	(c)	Senna ex	Senna extract											
	(d)	None of	None of above											
(11)	) One	of the following is an example of systemic antacid												
	(a)	Sodium bicarbonate (b) Aluminium hydroxid												
	(c)	Milk of n	nagnesi	a	(d)	Magnesiu	ım tris	ilicate						
(12)	)	is prepa	ared by	interactio			#		sium					
	sulphate.													
	(a)	Magnesiu	ım tris	ilicate	(b)	Magnesiu	ım oxi	de						
	(c)	Sodium t	risilica	te	(d)	Sodium s	ulphat	e						
(13)	(13) acts is an weak antacid and also used as a protective in													
	lotic	ons and ointments.												
	(a)	Bismuth	nitrate											
	(b)	Magnesiu	ım oxio	ie										
	(c)	Disodium	Hydro	gen Phos	phate									
	(d)	Bismuth	subcar	bonate										
(14)		_ are dru	gs whic	ch bring a	bout o	defaecatio	n.							
	(a)	Cathartic	S		(b)	Purgative	es							
	(c)	Laxatives			(d)	All of ab	ove							
(15)	Heav	y and light	t magn	esi <mark>um oxi</mark> c	de diff	er from ea	ch oth	er by	malanan sanasatan parinci					
	(a)	Density			(b)	Solubilit	У							
	(c)	Melting p	oint		(d)	All of ab	ove							
Answ	vers													
1.	(a)	2.	(d)	3.	(a)	4.	(a)	5.	(d)					
6.	(b)	7.	(a)	8.	(b)	9.	(d)	10.	(a)					
	(a)	12.	(a)	13.	(d)	14.	(d)	15.	(a)					

Mult	ipie (	Choice Questions :									
(1)	Inor	ganic antimicrobial agent	ts do	not act by							
	(a)	Oxidation	(b)	Halogenation							
	(c)	Protein precipitation	(d)	Sulphonation							
(2)		_ is used to stabilize hyd	roger	peroxide solution.							
	(a)	Acetanilide	(b)	Phenacetin							
	(c)	Hyroxyquinoline		all of above							
(3)	One			Potassium Permanganate							
	(a)	(a) It occurs as odourless, dark purple, prismatic crystals									
	(b)										
	(c)	(c) It has different equivalent weight in different medium									
	(d)	It is determined by con	nplex	ometric titration							
(4)	One	of the following is not a	a sync	onym for Calcium Hypochlorite							
		·									
	(a)	Chlorinated Lime	(b)	Bleaching Powder							
	(c)	Chloride of lime	(d)	Milk of chloride							
(5)	Lun	ar caustic									
	(a)	$AgNO_3$	(b)	$H_3BO_3$							
	(c)	KMnO <sub>4</sub>	(d)	КОН							
(6)	Lugo	ol's solution contains	•								
	(a)	5 % w/v I <sub>2</sub> and 10 % I	KI in	water							
	(b)	1.25 % w/v lodine in g									
	(c)	10 % w/v I <sub>2</sub> and 6 %									
		2.5 % w/v I <sub>2</sub> , 2.5 % w/									
	(d)	2.5 /0 44/ 4 12/ 210 /0 11/	e turi i sekrisik	The state of the s							

										-				
(7)														
	(a)	It is obtai	ned from s	ea w	eeds	5								
	(b)		It is volatile at ordinary temperature											
	(c)	Its assay	Its assay is based on acid base titration											
	(d)	It should	It should be stored in an amber coloured container											
(8)	AgN	$\log NO_3$ act as antimicrobial by												
	(a)	Halogenat				Oxidati	on							
	(c)	Protein pi	recipitation	(	d)	a and b	)							
(9)	Mole	lolecular formula of borax is												
	(a)	Na <sub>2</sub> B <sub>4</sub> O <sub>6</sub> ,	10H <sub>2</sub> O	(1	b)	$Na_2B_4O$	<sub>7</sub> , 10	H <sub>2</sub> O						
	(c)	Na <sub>3</sub> B <sub>4</sub> O <sub>7</sub> ,	10H <sub>2</sub> O	(	d)	$Na_2B_3O$	<sub>7</sub> , 10	H <sub>2</sub> O						
(10)	The	only differ	ence betwe	een y	yello	w and	red r	nercuric	oxid	le is				
	-	_·												
	(a)	the state of	of subdivisi	on (1	b)	density								
	(c)	molecular	weight	(0	<b>d)</b>	solubili	ty							
Ansv	vers	•												
1.	(d)	2.	(d)	3.	(d)	)	4.	(d)	5.	(a)				
6.	(a)	7.	(c)	8.	(c)		9.	(b)	10.	(a)				

•	Mul	ltiple	Choice Questions:					
	(1)	Ant	imony Postassium tart	rate i	s			
		(a)	emetic	(b)	expectorant			
		(c)	antidote	(d)	a and b			
	(2)	NH	4Cl is used as					
		(a)	Systemic acidifier		the theory and add but and			
		(b)	Electrolyte replenish is not indicated	nen chloride is needed but sodium				
		(c)	Expectorant					
		(d)	All of above					
	(3)	Mo	lecular formula of Blue	vitri	ol is			
		(a)	CuSO <sub>4</sub> . 5H <sub>2</sub> O	(b)	CoSO <sub>4</sub> . 5H <sub>2</sub> O			
		(c)	FeSO <sub>4</sub> . 5H <sub>2</sub> O	(d)	Na <sub>2</sub> SO <sub>4</sub> . 5H <sub>2</sub> O			
	(4)	One	e of the following is no	t a ha	nematinic			
		(a)	Iron	(b)	Folic acid			
		(c)	Vitamin B <sub>12</sub>	(d)	Vitamin B <sub>2</sub>			
	(5)	One	of the following is an	Iron	in storage protein			
		(a)	Transferrin	(b)	Ferritin			
		(c)	Cytochrome	(d)	None of above			
	(6)	Alur	n is prepared from					
		(a)	Potassium sulphate a	and al	uminum sulphate			
		(b)	Potassium chloride a	nd al	uminum sulphate			
		(c)	Potassium sulphate a	ind al	uminum chloride			
		(d)	Potassium carbonate	and aluminum sulphate				

(7)	One	of the follo	owing i	s not	true	for Sodiu	m thi	osulphate	e	Separation 5	
	(a)	_				rc redox ti					
	(b)	Used as a	ntioxid	lant							
	(c)	Used as a	ntidote	e in c	yanid	le poisonir	ng				
	(d)	Molecular	formu	ıla is	Na <sub>2</sub> S	<sub>3</sub> 0 <sub>2</sub> .5H <sub>2</sub> 0					
(8)	Wha	at are the product A and B in following reaction									
						A an					
	(a)	$3 \text{ NaNO}_2$ and $2 \text{ CO}_2$ (b) $4 \text{ NaNO}_2$ and $2 \text{ CO}_2$									
	(c)	NaNO <sub>2</sub> and 3 $CO_2$ (d) 2 NaNO <sub>2</sub> and 2 $CO_2$									
(9)		of the follo							ia		
	(a)					Ferrous (					
	(c)	Ferrous S									
(10)		of the foll									
	(a)	Activated									
	(c)	FeSO <sub>4</sub>				NaNO <sub>2</sub>					
Ansv	vers	:				2					
1.	(d)	2.	(d)		3.	(a)	4.	(d)	5.	(b)	
6.	(a)	2. 7.	(d)	)	8.	(b)	9.	(d)	10.	(b)	
				1						(~)	

٠	Mu	ltiple	Choice Questions:		
	(1)			-	duces $3.7 \times 1010$ nuclear decays ivity of 1 g of radium is known as
		per		are acc	ivity of 1 g of a
		(a)	Roentgen	(b)	1 Curie
		(c)	1 Becquerel	(d)	1 RAD
	(2)		ecqurel is equivalent		
		(a)	$2.7 \times 10^{-11}$ curie	(b)	$2.7 \times 10^{-10}$ curie
		(c)	$2.7 \times 10^{-8} \text{ curie}$	(d)	$2.7 \times 10^{-5}$ curie
	(3)	Wh	ich of the following ha	s lowes	t tissue penetration power
		(a)	$\alpha$ -particle	(b)	β-particle
		(c)	x-rays	(d)	γ-rays
	(4)	88R	$a^{226} \longrightarrow {}_{86}Rn^{222}$	+	•
		(a)	α	(b)	β
		(c)	$\alpha + \beta$	(d)	γ
	(5)	Geig	ger-Muller counter c	an dete	ct
		(a)	$\alpha$ and $\beta$	(b)	$\beta$ and $\gamma$
		(c)	$\alpha$ , $\beta$ and $\gamma$	(d)	γ
	(6)		_ is used for the mea	sureme	nt of absorption of vitamin B12 in
		the	diagnosis of pernaci	ous an	aemia.
		(a)	Co <sup>57</sup> and Co <sup>58</sup>	(b)	Co <sup>59</sup> and Co <sup>60</sup>
		(c)	Co <sup>58</sup>	(d)	Co <sup>57</sup>
	(7)	The	SI unit for absorbed	d dose	is
		(a)	gray (Gy)	(b)	rad
		(c)	erg	(d)	None of above
	(8)	1 cu	rie = D.P.S.		
		(a)	$3.7\times10^{12}$	(b)	$2.7\times10^{10}$
			$3.7\times10^{10}$	(d)	$3.7\times10^{11}$

(9)	One	of th	o foll	orvin	a is no	ot tru	o for 2 v							
	(a)		of the following is not true for ? particle  They are affected by strong magnetic fields											
(b) Can penetrate aluminum sheet up to 3 mm thickn														
	(c)	They have negative charge												
	(d)		of abo											
(10)		is	not a	n iso	tope o	of hyd	lrogen.	٠						
	(a)						$_{1}H^{2}$							
	(c)	$_1H^3$				(d)	None o	of above	е					
Ansv	vers	•												
1.	(b)		2.	(a)	•	3.	(a)	4.	(a)	5.	(c)			
6.	(a)		7.	(a)		8.	(c)	9.	(d)	10.	(d)			