

आयुक्त (भीषाचे), तैद्यकीय शिक्षण दुल्य विज्ञाल, गट- अ न्याळगी परीक्षा, २० ७२ CODE:

प्रश्नपुस्तिका क्रमांक

दि । ४ मो व

BOOKLET NO.

प्रश्नपुस्तिका

Student Bounty Com एकूण प्रश्न : 200

एकूण गुण: 200

शेवटचा अंक

वेळ : 2 ( दोन ) तास

चाळणी परीक्षा/SCREENING TEST

सूचना

- (1) सदर प्रश्नपुस्तिकेत 200 अनिवार्य प्रश्न आहेत. उमेदवारांनी प्रश्नांची उत्तरे लिहिण्यास सुरुवात करण्यापूर्वी या प्रश्नपुस्तिकेत सर्व प्रश्न आहेत किंवा नाहीत याची खात्री करून घ्यावी. असा तसेच अन्य काही दोष आढळल्यास ही प्रश्नपुस्तिका समवेक्षकांकडून लगेच बदलून घ्यावी. परीक्षा-क्रमांक
- आपला परीक्षा-क्रमांक ह्या चौकोनांत न विसरता बॉलपेनने लिहावा.

वर छापलेला प्रश्नपुस्तिका क्रमांक तुमच्या उत्तरपत्रिकेवर विशिष्ट जागी उत्तरपत्रिकेवरील सूचनेप्रमाणे **न विसरता नमूद करावा**.

नेंद्राची संकेताक्षरे

- या प्रश्नपुस्तिकेतील प्रत्येक प्रश्नाला 4 पर्यायी उत्तरे सुचिवली असून त्यांना 1, 2, 3 आणि 4 असे क्रमांक दिलेले आहेत. त्या चार उत्तरांपैकी सर्वात योग्य उत्तराचा क्रमांक उत्तरपत्रिकेवरील सूचनेप्रमाणे तुमच्या उत्तरपत्रिकेवर नमूद करावा. अशा प्रकारे उत्तरपत्रिकेवर उत्तरक्रमांक नमूद करताना तो संबंधित प्रश्नक्रमांकासमोर छायांकित करून दर्शविला जाईल याची काळजी घ्यावी. **ह्याकरिता फक्त** काळ्या शाईचे बॉलपेन वापरावे, पेन्सिल वा शाईचे पेन वापरू नये.
- सर्व प्रश्नांना समान गुण आहेत. यास्तव सर्व प्रश्नांची उत्तरे द्यावीत. घाईमुळे चुका होणार नाहीत याची दक्षता घेऊनच शक्य तितक्या वेगाने प्रश्न सोडवावेत. क्रमाने प्रश्न सोडविणे श्रेयस्कर आहे पण एखादा प्रश्न कठीण वाटल्यास त्यावर वेळ न घालविता पुढील प्रश्नाकडे वळावे. अशा प्रकारे शेवटच्या प्रश्नापर्यंत पोहोचल्यानंतर वेळ शिल्लक राहिल्यास कठीण म्हणून वगळलेल्या प्रश्नांकडे परतणे सोईस्कर ठरेल.
- उत्तरपत्रिकेत एकदा नमूद केलेले उत्तर खोडता येणार नाही. नमूद केलेले उत्तर खोडून नव्याने उत्तर दिल्यास ते तपासले जाणार नाही.
- प्रस्तुत परीक्षेच्या उत्तरपत्रिकांचे मूल्यांकन करताना उमेदवाराच्या उत्तरपत्रिकेतील योग्य उत्तरांनाच गुण दिले जातील. तसेच ''उमेदवाराने वस्तुनिष्ठ बहुपर्यायी स्वरूपाच्या प्रश्नांची अचूक उत्तरेच उत्तरपत्रिकेत नमूद करावीत. अन्यथा त्यांच्या उत्तरपत्रिकेत सोडविलेल्या प्रत्येक तीन चुकीच्या उत्तरांसाठी एका प्रश्नाचे गुण वजा करण्यात येतील''.
- प्रश्नपुस्तिकेमध्ये विहित केलेल्या विशिष्ट जागीच कच्चे काम (रफ वर्क) करावे. प्रश्नपुस्तिकेव्यतिरिक्त उत्तरपत्रिकेवर वा इतर कागदावर कच्चे काम केल्यास ते कॉपी करण्याच्या उद्देशाने केले आहे, असे मानले जाईल व त्यानुसार उमेदवारावर शासनाने जारी केलेल्या ''परीक्षांमध्ये होणाऱ्या गैरप्रकारांना प्रतिबंध करण्याबाबतचे अधिनियम-82'' यातील तरतुदीनुसार कारवाई करण्यात येईल व दोषी व्यक्ती कमाल एक वर्षाच्या कारावासाच्या आणि/किंवा रुपये एक हजार रकमेच्या दंडाच्या शिक्षेस पात्र होईल.

# ताकीद

ह्या प्रश्नपत्रिकेसाठी आयोगाने विहित केलेली वेळ संपेपर्यंत ही प्रश्नपुस्तिका आयोगाची मालमत्ता असून ती परीक्षाकक्षात उमेदवाराला परीक्षेसाठी वापरण्यास देण्यात येत आहे. ही वेळ संपेपर्यंत सदर प्रश्नपुस्तिकेची प्रत/प्रती, किंवा सदर प्रश्नपुस्तिकेतील काही आशय कोणत्याही स्वरूपात प्रत्यक्ष वा अप्रत्यक्षपणे कोणत्याही व्यक्तीस पुरविणे, तसेच प्रसिद्ध करणे हा गुन्हा असून अशी कृती करणाऱ्या व्यक्तीवर शासनाने जारी केलेल्या ''परीक्षांमध्ये होणाऱ्या गैरप्रकारांना प्रतिबंध करण्याबाबतचा अधिनियम-82'' यातील तरतुदीनुसार तसेच प्रचलित कायद्याच्या तरतुदीनुसार कारवाई करण्यात येईल व दोषी व्यक्ती कमाल एक वर्षाच्या कारावासाच्या आणि/किंवा रुपये एक हजार रकमेच्या दंडाच्या शिक्षेस पात्र होईल.

तसेच ह्या प्रश्नपत्रिकेसाठी विहित केलेली वेळ संपण्याआधी ही प्रश्नपुस्तिका अनिधकृतपणे बाळगणे हा सुद्धा गुन्हा असून तसे करणारी व्यक्ती आयोगाच्या कर्मचारीवृंदापैकी, तसेच परीक्षेच्या पर्यवेक्षकीयवृंदापैकी असली तरीही अशा व्यक्तीविरूद्ध उक्त अधिनियमानुसार कारवाई करण्यात येईल व दोषी व्यक्ती शिक्षेस पात्र होईल.

पुढील सूचना प्रश्नपुस्तिकेच्या अंतिम पृष्ठावर पहा

नद् ψ उद्य सील 400 सूचनेविना पर्यवेक्षकांच्या

									S	1
										LIIdento
A					3					10
ι.	Wha	it is true of affir	nity tags	s ?						
	(1)	Affinity tags a	re long	peptide s	equenc	es.				
	(2)	Affinity tags l	nave 4 c	onsecutive	tyrosi	ine res	idues.			
	(3)	Affinity tags l	nave 6 c	onsecutive	histid	line re	sidues.			
	(4)	Affinity tags l	nave 8 d	lifferent ar	nino a	cid res	idues.			
2.	Whi IP ?	ch anticoagular	nts are p	permitted	to be 1	used fo	or storing wh	nole Hur	nan Bl	ood as pe
	(a)	Anticoagulant	Citrate	Dextrose	soluti	on (A	CD)			
	(b)	Anticoagulant	Citrate	Phosphat	te Dex	trose s	solution (ACI	PD)		
	(c)	Low Molecula	r Weigl	nt Heparir	ns (LM	WHs)				
	(d)	Sodium Warfa	arin							
	(1)	(a) and (b)	(2)	(a) and (	(c)	(3)	(c) and (d)	(4)	(b)	and (c)
	Plac	e the steps invo	lved in	hemostasi	s in the	e corre	ect order of th	neir occu	rrence	:
	(a)	Conversion of	fibrino	gen to fibr	in					
	(b)	Conversion of	prothro	ombin to t	hromb	in				
	(c)	Activation of	intrinsio	or extrin	sic pat	hway				
	(d)	Formation of	prothro	mbinase.						
	(1)	(a), (b), (c) and	d (d)		(2)	(a),	(c), (d) and (l	p)		
	(3)	(c), (d), (b) and	d (a)		(4)	(c), (	(b), (d) and (a	a)		
ļ.		it is the correct ervation of Cry			mpera	ture a	nd duration o	of storage	e respe	ectively fo
	(1)	-20°C for 6 r			(2)	- 20	°C for 9 mor	iths		
	(3)	−30°C for 9 r	nonths		(4)	-30	°C for 12 mo	onths		
		t is the maximu 2 months ?	ım volu	me of bloc	od adv	ised to	be donated	within co	nsecu	tive perio
	(1)	1.0 L	(2)	1.2 L		(3)	1.5 L	(4)	1.8	L
6.	Whi	ch chemical is r	eleased	by platele	ts whe	n they	adhere to th	e damag	ed wa	11 ?
	(1)	Histamine		-	(2)	•	- Iydroxytrypt			
	(3)	Acetylcholine			(4)		enalin			
		-								

7.	How	many types of antigens have b	een dete	ected on the surface of Red Blood Ce.  Ten
	(1)	Five	(2)	Ten
	(3)	Fifty	(4)	More than one hundred
8.		hich disease, Type - IV Hypersen obstruction ?	sitivity r	eaction causes chronic intestinal inflammation
	(1)	Contact dermatitis	(2)	Rheumatoid arthritis
	(3)	Crohn disease	(4)	Multiple sclerosis
9.	Wha	t is not true of the Haemolytic	disease c	of newborns ?
	(a)	It can affect malnourished ne	wborns.	
	(b)	Causes jaundice.		
	(c)	Occurs because of incompatib	le blood	transfusion in newborns.
	(d)	Can be prevented by injecting	the moth	er with anti - D agglutinins just after delivery.
	(1)	(a), (b) and (c)	(2)	(a) and (d)
	(3)	(b), (c) and (d)	(4)	(a), (b), (c) and (d)
10.	Whe	n is HBIG administered to an ir	nfant bor	n to HBs Ag positive mother ?
	(1)	Within 7 days after birth	(2)	Within 1 day after birth
	(3)	Within 8 hours after birth	(4)	Within 12 hours after birth
11.	Wha	t is not true of the composition	of blood	1?
	(a)	Plasma forms 91.5% of blood.		
	(b)	WBCs are largely responsible	for the v	iscosity of blood.
	(c)	Albumins form the major grow	up of pla	sma proteins.
	(d)	Macrophages are a type of cir	culating	RBCs.
	(1)	(a), (b), (c) and (d)	(2)	(a), (b) and (c)
	(3)	(a), (b) and (d)	(4)	(a), (c) and (d)
12.		ch hemopoietic growth factoblasts ?	or regul	lates conversion of myloid stem cells to
	(1)	Colony Forming Unit - Erythr	ocyte	
	(2)	Colony Forming Unit - Leuko	cyte	
	(3)	Colony Forming Unit - Granu	locyte N	facrophage
	<b>(4)</b>	Colony Forming Unit - Erythr	opoietin	

								Stille	1			
									Chr			
A			5						NO			
13.	Wha	at is not true of the cord	stem cells ?									
	(a)	They are easily collecte	ed.									
	(b)	They are more in stem	cells than in re	d bone	e marrow.							
	(c)	The match between do	onar and recipie	nt has	to be exac	t in a t	ransı	olant.				
	(d)	Less likely to transmit	infections.									
	(1)	(b) (2)	(a) and (d)	(3)	(d)		(4)	(c)				
14.	Wha	at is not true of the intri	nsic pathway of	coagi	ılation ?							
	(1)	It is fast and simple.										
	(2)	Its activators are in di	rect contact with	n bloo	d.							
	(3)	Outside tissue damage	e is not needed.									
	(4)	Contact with collagen	fibres activates	factor	XII.							
<u> </u>	The	following is true about	anaphylactic rea	actions								
	(a) Occurs within a few minutes after exposure to allergen in a previously sensitised person.											
	(b)	IgE antibodies and ma	st cells play an	impor	tant role							
	(c)	Rheumatoid Arthritis	is an example.									
	(d)	Penicillin can cause it	in a few people.									
	(1)		(2)		(b) and (c)							
	(3)	(a), (b) and (d)	(4)	(b),	(c) and (d)							
16.	Whi	ch organism is known t	o cause Lympho	granu	loma Vene	reum ir	ı bot	h the sexe	s ?			
	(1)	Neisseria gonorrhoeae	(2)	Tric	homonas v	aginalis	3					
	(3)	Treponema pallidium	(4)	Chla	amydia trac	chomati	is					
 17.	Wha	at is true of the Genital F	Herpes ?					•				
	(a)	It is not curable										
	(b)	It is recurrent										
	(c)	Caused by HSV - 2										

(a), (b), (c) and (d)

(b), (c) and (d)

(1)

(3)

(d) Chancres are produced in advanced stages.

(a), (b) and (c)

(4) (a), (b) and (d)

											.~
ЮІ	[						6				OH
8.		muclain ?	h min	imum	perc	ent Haemog	lobin	conte	nt (W/V) should	whol	e Human Bl
	(1)	11.1			(2)	10.2		(3)	9.7	(4)	8.5
9.		ch typ nflamn			ly cau	ses anaphyl	axis le	ading	to vascular dilati	on an	d edema leading
	(1)	IgE			(2)	IgA		(3)	IgD	(4)	IgM
:0.	Wha	nt is th	e che	mical	natur	e of antigen	s pres	ent o	n the surface of R	BCs ?	)
	(1)		pholi		(2)	Ü	-		poly saccharide		
	TATI :			•••					1.0		
1.	Whi	ch org	an or	its pa	art is a	affected by	ureap.	lasma	urealyticum ?		
	(1)	Uret	er ———		(2)	Urethra	_	(3)	Nephron	(4)	Glomerulus
				d grou		Urethra	sche			(4)	Glomerulus
	Mat		blood	d grou		h the colou	scher	me of		(4)	Glomerulus
	Mat	ch the	blood	d grou		h the coloui Colu		me of		(4)	Glomerulus
	Mate Colu	ch the	blood	d grou		h the colour Colu (Lab	ımn B el col Yelle	me of		(4)	Glomerulus
	Mate Colu	ch the umn A	blood	d grou		h the colour Colu (Lab	ımn E el col	me of		(4)	Glomerulus
	Mate Colu (Blo	ch the umn A od gro	blood	d grou		h the colour Colu (Lab	ımn B el col Yelle	me of lour)		(4)	Glomerulus
	Mate Colu (Blo (a) (b)	ch the umn A od gro O A	blood	d grou		h the colour Colu (Lab (i)	imn E el col Yello Whi	me of lour) ow te		(4)	Glomerulus
	Mate Colu (Blo (a) (b) (c)	ch the  umn A  od gro  O  A	blood	d grou		h the colour Colu (Lab (i) (ii) (iii)	imn E el col Yello Whi Blue	me of lour) ow te		(4)	Glomerulus
	Mate Colu (Blo (a) (b) (c)	och the  umn A  od gro  O  A  B  AB	blood oup)		p wit	h the colour Colu (Lab (i) (ii) (iii)	imn E el col Yello Whi Blue	me of lour) ow te		(4)	Glomerulus
	Mate Colu (Blo (a) (b) (c) (d)	och the umn A od gro O A B AB (a)	blood bup)	(c)	p wit	h the colour Colu (Lab (i) (ii) (iii)	imn E el col Yello Whi Blue	me of lour) ow te		(4)	Glomerulus
	Mate Colu (Blo (a) (b) (c) (d) (1)	ch the amn A od gro O A B AB (a) (iii)	blood bup)	(c) (iv) (ii)	(d) (ii) (iv)	h the colour Colu (Lab (i) (ii) (iii)	imn E el col Yello Whi Blue	me of lour) ow te		(4)	Glomerulus
22.	Mate Colu (Blo (a) (b) (c) (d) (1) (2)	ch the amn A od gro O A B AB (a) (iii) (iii)	(b) (i) (i)	(c) (iv)	(d)	h the colour Colu (Lab (i) (ii) (iii)	imn E el col Yello Whi Blue	me of lour) ow te		(4)	Glomerulus
	Mate Colu (Blo (a) (b) (c) (d) (1) (2) (3) (4)	ch the amn A od gro O A B AB (a) (iii) (iv) (i)	(b) (i) (ii) (iii)	(c) (iv) (ii) (i) (iv)	(d) (ii) (iv) (ii) (ii)	h the colour Colu (Lab (i) (ii) (iii) (iv)	yello Yello Whi Blue Pink	me of		(4)	Glomerulus
	Mate Colu (Blo (a) (b) (c) (d) (1) (2) (3) (4)	ch the umn A od gro O A B AB (a) (iii) (iii) (iv) (i)	(b) (i) (ii) (iii)	(c) (iv) (ii) (i) (iv)	(d) (ii) (iv) (ii) (ii)	h the colour Colu (Lab (i) (ii) (iii)	yello Yello Whi Blue Pink	me of some of some of the some		(4)	Glomerulus

A					7				dent	1
24.	Whi	ich of the follo	wing is/	are activate	ed by t	hrom	boplastin ?			જૃ
	(a)	Fibrinolytic s	0				1		`	1
	(b)	Extrinsic coa	•	pathway						. `
	(c)	Platelet aggr	•							
	(d)	Graft Vs hos	•	n						
	(1)	(b) only			(2)	(a) a	and (c)			
	(3)	(b) and (d)			(4)	(a),	(b), (c) and (d)	)		
25.	A h	ematocrit of 40	indicate	es the follow	wing :					
	(1)	Blood forms	40% of b	ody fluids.						
	(2)	RBCs form 4	0% of the	e total volu	me of	blood	•			
	(3)	RBCs, WBCs	and pla	telets togetl	ner for	m 409	% of the total v	volume o	f blood.	
	(4)	Haemoglobir	is 40%	lower than	norm	al ran	ge.			
26.	Fill	in the blank.								
	Tiss	ue type plasmi enzyn	•	ctivator (t -	PA) tł	nat cle	aves plasmino	gen to fo	rm plasmir	ı is a
	(1)	Nuclease	(2)	Amylase		(3)	Protease	(4)	Lipase	
27.	Wha	at is the quantu	ım of for	med eleme	nts in	whole	blood ?			
	(1)	40%	(2)	45%		(3)	55%	(4)	60%	
28.	Whi	ich are the two	most in	portant co	nstitue	nts of	Fibrin sealant	t kit ?		
	(1)	Fibrinogen a	nd thron	nbin	(2)	Prot	hrombin and	thrombin		
	(3)	Fibrin and Fi	brinoger	ı	(4)	Vita	min K and th	rombopla	stin	
29.	Who	en did the Gov	ernment	of India pu	ıblish	Natio	nal Blood Polic	cy ?		
	(1)	1950	(2)	1991		(3)	2002	(4)	2010	

**30.** Which is the most common viral antigen found on the surface of HIV?

(1) P 24

(2) P 12

P 3128

P 8080 (4)

कच्या कामासाठी जागा /SPACE FOR ROUGH WORK

P.T.O.

				- 1	2
					al infections ? Lamivudin (a) and (d)
NOI 8					.00
31. What are the anti - viral drugs recommend	led for	treatn	nent of H1	N1 vira	al infections?
(a) Oseltamivir (b) Zanamivir	(c)	Acy	clovir	(d)	Lamivudin
(1) (a) and (b) (2) (b) and (c)	(3)	(c) a	nd (d)	(4)	(a) and (d)
32. What drugs are used to terminate early pro-	egnan	cy ?			
(a) Finasteride (b) Tamoxifen	(c)	Clor	niphene	(d)	Mifepristone
(1) (a) and (b) (2) (b)	(3)	(c)		(4)	(d)
33. What is not true of oxytocin?					
(a) It acts through a protein coupled rec	eptors				
(b) Number of oxytocin receptors increase	se in l	ate pre	gnancy.		
(c) It is used in uterine inertia.					
(d) Estrogens desensitize uterus to oxyto	cin.				
(1) (a) and (b) (2) (b) and (d)	(3)	(c)		(4)	(d)
34. What is the threshold limit value for chlore	oform	at a wo	orkplace ?		
(1) 2 ppm (2) 3 ppm	(3)	5 pp	om	(4)	10 ppm
35. What is the main site of action for steroid l	normo	nes ?			
(1) Cytoplasm (2) Plasma memb	rane	(3)	Nucleus	(4)	Mitochondria
36. In which of the following organs Fluoride	and L	ead get	t concentra	ted ?	
(1) Body fat (2)	Int	ravascu	ılar space		
(3) Extracellular space (4)	Во	nes			
37. Which of the following antiepileptic drugs	acts a	s a GA	BA transa	minse :	inhibitor ?
(1) Sodium valproate (2)	Vi	gabatrii	n		
(3) Tiagabine (4)	Ga	bapent 	ine ————		
38. Which of the following drugs is given during	ng hyp	ertensi	ive emerge	ncies a	s a IV infusion
(1) Nifedipine (2)	Ni	roglyce	erine		
(3) Sodium Nitroprusside (4)	Pro	pranol	lol		

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<b>45.</b>	Whi	ch of the follow ce ?	ing inj	ectable local ar	nesthet	ics is adı	ministere	d only	in subarachno
	(1)	Procaine	(2)	Amithocaine	e (3	) Bupi	vacaine	(4)	Lignocaine
46.	On	which of the op	ioid rec	ceptors does m	ethado	ne act p	redomina	antly ?	
	(1)	Delta	(2)	Kappa	(3	) Mu		(4)	Sigma
47.	Whi	ch of the follow	ing me	tals is primaril	y bour	ıd in skir	n, hair an	d nails	?
	(1)	Lead	(2)	Copper	(3	) Zinc		(4)	Arsenic
48.	Whi	ch of the follow	ing clas	sses of drugs a	re used	l in dry 1	unproduc	ctive co	ugh ?
	(a)	Mucolytics	Ü			,	•		,
	(b)	Expectorants							
	(c)	Anti - tussives	<b>;</b>						
	(d)	Anti - histami							
	(1)	(a) and (b)	(2)	(a) and (c)	(3)	) (c) ar	nd (b)	(4)	(c) and (d)
 19.	Wha	it is the major re	oute of	absorption for	eleme	ntal Mer	cury ?		
-,-	(1)	Respiratory tr		(2			stinal tra	ct	
	(3)	Skin	acı	•	1) Ey		dilai Ha	Ci	
—— i0.	—— Hae	molysis with pr	imaguii	ne due to G - 6	- PD o	deficiency	z is an ex	ample (	of :
	(1)	-	-	g to variation i		•			•
	(2)		`	ification in dr		,			
	(3)	Cross tolerand			0				
	(4)	Tachyphylaxis							
51.	Wha	it is true of peni	- cillamii	ne ?					
	(a)	It is a narrow							
	(b)	It is orally abs	•						
	(c)	It chelates copy		rcury, zinc and	llead				
	(d)			ause cutaneous		ıs			
	(1)	(a) and (b)	(2 <u>)</u>	(b) and (c)	(3)		d (d)	(4)	(a) and (b)
							<del></del> ·	<u> </u>	

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						`	2/2	er?
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<b>52.</b>	Whi	ich of the following ar	e the features	s of a	cardi	oselective β(beta	a) block	er?
	(a)	Does not cause dysl	ipidaemia					
	(b)	Less liable to impair	exercise cap	acity				•
	(c)	Safer in diabetics (as	s compared to	non o	- sele	ctive β blocker)		
	(d)	Suppresses essential	tremor.					
	(1)	(a), (b), (c) and (d)		(2)	(a),	(b) and (c)		
	(3)	(b), (c) and (d)		(4)	(a),	(c) and (d)		
53.	In a	patient suffering from	n liver cirrhos	is, th	e follo	wing effects on	drug a	ction may occur.
	(a)	Bioavailability of dr	ugs undergoi	ng hi	gh firs	st pass metaboli	sm.	
	(b)	Protein binding of a	cidic drugs n	nay d	ecreas	e.		
	(c)	Dose of drugs getting	•	-			ymes h	as to be reduced.
	(d)	Dose of drugs excre		-	-		-	
	(1)	(a), (b) and (c)		(2)		and (c)		
	(3)	(c) and (d)		(4)	` ′	and (d)		
54.	Whi	ch of the following dr	ugs is knowr	n to ca	ause F	Raye's Syndrom	e ?	
	(1)	Phenacetin (2)	Sulindac		(3)	Dicofenac	(4)	Aspirin
55.	Wha	at does Edetate Calciu	m Disodium	effect	tively	treat ?		
	(a)	Lead poisoning	(b)	Mer	cury p	ooisoning		
	(c)	Arsenic poisoning	(d)	Arth	nerosc	lerotic plaques		
	(1)	(a) (2)	(a) and •(d)	)	(3)	(b) and (c)	(4)	(d)
56.	Whi	ch of the following in	sulin prepara	tions	of bo	vine origin is sh	ort acti	ng ?
	(1)	Insulin - Zinc suspen	nsion amorph	ius (s	emi - l	lente)		
		Insulin - Zinc susper	nsion (lente)					
	(2)	nisumi - Znic suspen	(101011)					
	(2) (3)	Insulin - Zinc suspe	, ,	ine (ı	ıltra-le	ente)		

Column A (drugs)  (a) Amphotericin B (b) Fluconazole (c) Flucytosine (d) Terbinafine (a) (b) (c) (d) (1) (i) (iii) (iii) (iv) (2) (ii) (i) (ii) (iv) (3) (ii) (i) (iv) (iii) (4) (iv) (ii) (i) (iii)  58. Which substance is antagonized by Naloxone? (1) Propranolol (2) Labetalol (3) Opioid receptor (4) Salbu  59. What is not true of Aspirin? (a) It is a selective COX <sub>2</sub> inhibitor. (c) It can induce asthma. (1) (a), (b), (c) and (d) (2) (a) and (c)												de
(c) Flucytosine (iii) Inhibits DNA and RNA synthesis (d) Terbinafine (iv) Accumulation of sterol squalene (a) (b) (c) (d) (1) (i) (iii) (ii) (iv) (2) (ii) (i) (iii) (iv) (3) (ii) (i) (iv) (iii) (4) (iv) (ii) (i) (iii) (4) (iv) (ii) (i) (iii) (58. Which substance is antagonized by Naloxone?  (1) Propranolol (2) Labetalol (3) Opioid receptor (4) Salbu (59. What is not true of Aspirin?  (a) It is a very safe drug. (b) It is a selective COX2 inhibitor. (c) It can induce platelet aggregation. (d) It can induce asthma. (1) (a), (b), (c) and (d) (2) (a), (b) and (d) (3) (a), (b) and (c) (4) (a) and (c)  60. What are the important features of amoxicillin? (a) It is penicillinase resistant. (b) It is bactericidal for both gram positive and gram negative bacteria. (c) Incidence of diarrhoea is less. (d) Indicated in respiratory injections (1) (a), (b), (c) and (d) (2) (b), (c) and (d)	NOI							12				
(c) Flucytosine (iii) Inhibits DNA and RNA synthesis (d) Terbinafine (iv) Accumulation of sterol squalene  (a) (b) (c) (d)  (1) (i) (iii) (ii) (iv)  (2) (ii) (i) (iii) (iv)  (3) (ii) (i) (iv) (iii)  (4) (iv) (ii) (i) (iii)  58. Which substance is antagonized by Naloxone?  (1) Propranolol (2) Labetalol (3) Opioid receptor (4) Salbu  59. What is not true of Aspirin?  (a) It is a very safe drug.  (b) It is a selective COX2 inhibitor.  (c) It can induce platelet aggregation.  (d) It can induce asthma.  (1) (a), (b), (c) and (d) (2) (a), (b) and (d)  (3) (a), (b) and (c) (4) (a) and (c)  60. What are the important features of amoxicillin?  (a) It is penicillinase resistant.  (b) It is bactericidal for both gram positive and gram negative bacteria.  (c) Incidence of diarrhoea is less.  (d) Indicated in respiratory injections  (1) (a), (b), (c) and (d) (2) (b), (c) and (d)	57.	Mato	h the	giver	n antif	ungal	l drugs w	ith their	mech	anism of ac	tion:	Ì
(c) Flucytosine (iii) Inhibits DNA and RNA synthesis (d) Terbinafine (iv) Accumulation of sterol squalene  (a) (b) (c) (d)  (1) (i) (iii) (ii) (iv)  (2) (ii) (i) (iii) (iv)  (3) (ii) (i) (iv) (iii)  (4) (iv) (ii) (i) (iii)  58. Which substance is antagonized by Naloxone?  (1) Propranolol (2) Labetalol (3) Opioid receptor (4) Salbu  59. What is not true of Aspirin?  (a) It is a very safe drug.  (b) It is a selective COX2 inhibitor.  (c) It can induce platelet aggregation.  (d) It can induce asthma.  (1) (a), (b), (c) and (d) (2) (a), (b) and (d)  (3) (a), (b) and (c) (4) (a) and (c)  60. What are the important features of amoxicillin?  (a) It is penicillinase resistant.  (b) It is bactericidal for both gram positive and gram negative bacteria.  (c) Incidence of diarrhoea is less.  (d) Indicated in respiratory injections  (1) (a), (b), (c) and (d) (2) (b), (c) and (d)		Colu	ımn A	(dru	ıgs)		C	olumn l	3 (Med	chanism)		
(c) Flucytosine (iii) Inhibits DNA and RNA synthesis (d) Terbinafine (iv) Accumulation of sterol squalene (a) (b) (c) (d) (1) (i) (iii) (ii) (iv) (2) (ii) (i) (iii) (iv) (3) (ii) (i) (iv) (iii) (4) (iv) (ii) (i) (iii) (2) (2) (2) (3) (3) (3) (3) (3) (3) (4) (2) (3) (3) (3) (4) (4) (5) (4) (5) (4) (5) (5) (6) (6) (6) (6) (6) (6) (6) (6) (7) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7		(a)	Amp	hoter	ricin B	3	(i)	) Inhi	bits er	yosterol syn	thesis	
(d) Terbinafine (a) (b) (c) (d) (1) (i) (iii) (iii) (iv) (2) (ii) (i) (iii) (iv) (3) (ii) (i) (iv) (iii) (4) (iv) (ii) (i) (iii)  58. Which substance is antagonized by Naloxone? (1) Propranolol (2) Labetalol (3) Opioid receptor (4) Salbu  59. What is not true of Aspirin? (a) It is a very safe drug. (b) It is a selective COX <sub>2</sub> inhibitor. (c) It can induce platelet aggregation. (d) It can induce asthma. (1) (a), (b), (c) and (d) (2) (a), (b) and (d) (3) (a), (b) and (c) (4) (a) and (c)  60. What are the important features of amoxicillin? (a) It is penicillinase resistant. (b) It is bactericidal for both gram positive and gram negative bacteria. (c) Incidence of diarrhoea is less. (d) Indicated in respiratory injections (1) (a), (b), (c) and (d) (2) (b), (c) and (d)		(b)	Fluc	onazo	ole		(i	i) Alte	rs per	meability of	cell mem	brane
(a) (b) (c) (d) (1) (i) (iii) (iii) (iv) (2) (ii) (i) (iii) (iv) (3) (ii) (i) (iv) (iii) (4) (iv) (ii) (i) (iii)  58. Which substance is antagonized by Naloxone? (1) Propranolol (2) Labetalol (3) Opioid receptor (4) Salbu  59. What is not true of Aspirin? (a) It is a very safe drug. (b) It is a selective COX <sub>2</sub> inhibitor. (c) It can induce platelet aggregation. (d) It can induce asthma. (1) (a), (b), (c) and (d) (2) (a), (b) and (d) (3) (a), (b) and (c) (4) (a) and (c)  60. What are the important features of amoxicillin? (a) It is penicillinase resistant. (b) It is bactericidal for both gram positive and gram negative bacteria. (c) Incidence of diarrhoea is less. (d) Indicated in respiratory injections (1) (a), (b), (c) and (d) (2) (b), (c) and (d)		(c)	Fluc	ytosir	ne		(i	ii) Inhi	bits D	NA and RN	IA synthes	sis
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<ul> <li>(3) (a), (b) and (c)</li> <li>(4) (a) and (c)</li> <li>60. What are the important features of amoxicillin?</li> <li>(a) It is penicillinase resistant.</li> <li>(b) It is bactericidal for both gram positive and gram negative bacteria.</li> <li>(c) Incidence of diarrhoea is less.</li> <li>(d) Indicated in respiratory injections</li> <li>(1) (a), (b), (c) and (d)</li> <li>(2) (b), (c) and (d)</li> </ul>		(d)	It ca	n ind	luce a	sthma	۱.					
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<ul> <li>(a) It is penicillinase resistant.</li> <li>(b) It is bactericidal for both gram positive and gram negative bacteria.</li> <li>(c) Incidence of diarrhoea is less.</li> <li>(d) Indicated in respiratory injections</li> <li>(1) (a), (b), (c) and (d)</li> <li>(2) (b), (c) and (d)</li> </ul>		(3)	(a),	(b) an	ıd (c)			(4)	(a) a	ind (c)		
<ul> <li>(a) It is penicillinase resistant.</li> <li>(b) It is bactericidal for both gram positive and gram negative bacteria.</li> <li>(c) Incidence of diarrhoea is less.</li> <li>(d) Indicated in respiratory injections</li> <li>(1) (a), (b), (c) and (d)</li> <li>(2) (b), (c) and (d)</li> </ul>	60.	Wha	at are	the ir	nporta	ant fe	atures of	amoxici	 llin ?			
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(d) Indicated in respiratory injections (1) (a), (b), (c) and (d) (2) (b), (c) and (d)							•	•				
			Indi	cated	in res	spirat	ory inject	ions				
			(a),	(b), (c	and	(d)		(2)	(b),	(c) and (d)		
		(3)	(a),	(c) an	d (d)			(4)				
C1 What is the common and server of malaris in the country of												
<ul><li>What is the commonest cause of malaria in the world?</li><li>(1) P. Vivex</li><li>(2) P. Ovale</li><li>(3) P. Falciparum</li><li>(4) P. Ma</li></ul>		TA71-						عنا جاسما	41a a	1-d 2		

	E 1-92-Particular page 1			e de la companya de l				2	
									Teg.
A					13				yndallization h
62.	Con	nplete the senten	ice :						3
		dal developed a ch		od for contr	ol of	micro	oorganisms call	ed as T	yndallization h
	(1)	Intermittent ste	erilizat	ion is done	(2)	Boil	ing is done		
	(3)	Autocleving is	done		(4)	Pas	teurization is d	one	
63.	The	Epsilometer test	is em	oloyed to :					
	(a)	find severity of	finfec	ion.					
	(b)	determine the	efficac	y of antibiot	ic tre	atmei	nt.		
	(c)	find the titre of	f the a	ntibodies.					
	(d)	determine the	minim	um inhibito	ry co	ncenti	ration of an ant	ibiotic.	
	(1)	(a), (b)	(2)	(b), (c), (d)	)	(3)	(b), (d)	(4)	(a), (d)
64.	Mar	n is dead end for	:						
	(1)	Typhoid	(2)	Diphtheria	a	(3)	Rabies	(4)	AIDS
65.	Stor	my clot reaction	is typi	cally seen in	infec	tion l	oy:		
	(1)	Borrelia			(2)	Trep	ponema		
	(3)	Clostradium w	elchii		(4)	H. i	nfluenzae		
66.	Gen	etic mechanism o	of bact	erial drug re	esista	nce in	cludes :		
	(a)	Mutations occu	ır at th	ne rate $10^{-5}$	to 10	<sup>-9</sup> ce	lls per generatio	on.	
	(b)	Recombination cell resistant to		een two cells	s, eac	h resi	stant to differen	nt drug	s can produce a
	(c)	A plasmid carr cell.	ying g	ene introduc	ced ir	ito ce	ll population us	ually in	afect every other
	(1)	(a)	(2)	(b) and (a)		(3)	(a) and (c)	(4)	(a), (b) and (c)
67.	Dev	elopment of the	concep	ot of aseptic	techn	ique v	was devised by	:	
	(1)	Louis Pasteur	(2)	Joseph Lis	ter	(3)	Robert Koch	(4)	Paul Ehrlich
 68.	Scin	tillation counter	is used	l for which t	ests :				
68.	Scin <sup>a</sup>	tillation counter ELISA	is used (b)	t for which t RIA	ests :	(c)	CIE	(d)	H1N1

							(Ides)
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9.	One	of the following is not	an enzvme	used	in ELISA :		•
	(1)	β - galactosidase	,	(2)	glucose oxidase		
	(3)	alkaline phosphatase		(4)	coagulase		
'0.		nicroorganism growth is ange them in their chro	_		tabolic process invol	ving the	following steps
	(a)	Cell division	(b)	Mor	phogenesis		
	(c)	Differentiation	(d)	Exp	ansion		
	Cho	ose the correct option.					
	(1)	(a), (b), (c), (d)		(2)	(a), (c), (b), (d)		
	(3)	(b), (c), (d), (a)		(4)	(a), (d), (c), (b)		
1.	Whi	ch cell is involved in th	e specific i	mmun	e response ?		
	(1)	Monocytes (2)	Lymphoc	ytes	(3) Endocytes	(4)	Nucleocytes
2.	Agg	ressins are nothing but	:				
	(1)	Group of chemical co	mpounds 1	resemb	oling hormones.		
	(2)	Substances that activa	ite the hos	t respo	onse system.		
	(3)	Group of diffusable of	ellular com	nponer	nts produced by certa	ain path	ogen.
	(4)	Substance that inactive	ates the h	ost im	munity.		
<b>'3.</b>	Wha	at is the temperature - p	oressure co	mbina	tion for an autoclave	e ?	
	(1)	100 degrees c and 4 p	si	(2)	121 degrees c and	15 psi	
	(3)	131 degrees c and 9 p	si	(4)	115 degrees c and	3 psi	
74.	The	primary effect of ultra	- violet rad	iation	s is on microbial :		
	(1)	carbohydrates		(2)	enzymes		
	(3)	nucleic acids		(4)	cell walls		
75.	Urir	nary tract infection is m	ost often c	aused	by:		
<i>'</i> 3.							

		· · · · · · · · · · · · · · · · · · ·			W. Something			15
A				15				Studen
76.	The	penicillin family of antib	iotics is use	ed pr	imari	ly against :		
	(1)	viruses		(2)	fung	gi		
	(3)	gram negative bacteria		(4)	gran	n positive bacter	ia	
77.	Coc	ci arranged in packet of e	eight are :					
	(1)	Staphylococci (2)	Streptococo	ci	(3)	Pneumococci	(4)	Gaffkyi
78.	Stre	otococcus Pneumoniae may	cause :					
	(1)	gonorrhea		(2)	otitis	s media		
	(3)	endocarditis		(4)	wou	ind infection		
79.	Сер	halosporins are produced	d by :					
	(1)	Unicellular bacteria		(2)	Filar	mentous bacteria		
	(3)	Molds		(4)	Alga	ae		
80.	A fe	ever inducing substance is	s known as	3 :				
	(1)	exotoxin (2)	endotoxin		(3)	pyrogens	(4)	enterotoxin
81.	Tem	perature in Hot - air ove	n for sterili	izatio	n ma	y be :		
	(a)	210°C for $\frac{1}{2}$ hr						
	(b)	180°C for 1 hr						
	(c)	160°C for $1\frac{1}{2}$ hr						
	(1)	Only (a) is true		(2)	Only	y (b) is true		
	(3)	Only (c) is true		(4)	(a), (	(b) and (c) are tro	ue	
82.	In I	ndia, viral hepatatis is mo	ost commo	nly c	aused	by:		
82.	In II (1)	ndia, viral hepatatis is mo Hepatatis A	ost commoi	nly ca (2)		by : atatis B		

- Drug resistance can be transferred by: 83.
  - R plasmid from one bacteria to another
  - the process of transduction. (b)
  - (1)both are true
- (2)only (b) is true
- (3) both are false
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### Disinfection means: 84.

- When an article is freed of all microorganisms (1)
- Destruction of all pathogenic microorganisms (2)
- Prevention of infection (3)
- Inhibiting growth of bacteria (4)
- Hydrophobia is caused by rabies virus, its incubation period seems to be related to:
  - Vaccination (1)
  - Distance between site of bite and CNS (Central Nervous System) (2)
  - (3)Types of vector
  - (4)Infecting dose of virus
- Widal test is carried out for the diagnosis of Typhoid, what is true of the widal reaction? 86.
  - (1)Antibodies to 'H' Ag appear first and persist.
  - Antibodies to 'O' Ag appear first and persist. (2)
  - Antibodies to 'H & O'Ag appear simultaneously. (3)
  - Antibodies to 'H & O' Ag persist. (4)
- 87. Consider the following statements:
  - Gnotobiotic animals have only certain known strains of bacteria and other microorganisms.
  - (b) Gnotobiotic animals do not have well developed immune systems, lower cardiac output and high susceptibility to infections.

Now state whether:

(a) is true (1)

- (2) (b) is **tru**e
- (3)(a) and (b) are true
- (4)both are false

- 88. The BOD of effluent is affected by:
  - (a) The organic matter content.
  - (b) The oxidizable inorganic matter content.
  - (c) pH of the effluent.
  - Coloured substances. (d)
  - (1) (a), (b), (c), (d)

(2) (a), (b)

(3)(a), (b), (d) (4)(a), (b), (c)

89. Match the following:

# List I

### List II

- (a) S. aureus
- (i) UTI infection
- (b) E. coli
- (ii) Respiratory tract infection
- C. diphtheriae (c)
- (iii) Opportunistic infection Wound infection
- (d) P. Vulgaris
- (d)

(iv)

- (a) (b) (c)
- (ii) (1)(iii) (i) (iv) (2) (iv) (iii) (ii) (i)
- (3) (i) (iv) (iii) (ii)
- (4)(ii) (i) (iv) (iii)
- 90. What is laboratory diagnosis of enteric fever based on?
  - Blood culture (a)
- (b) Urine culture
- Widal test (c)
- (d) Stool culture

(1) (a) and (b) (2) (b) and (c)

(3) (c) and (d)

- **(4)** (a), (b), (c) and (d)
- 91. Match the following proteins with their specific functions in DNA replication.
  - (i) Helicases
- (a) Processive unwinding of DNA
- (ii) DNA primases
- (b) Seals the single strand
- **DNA** Ligases (iii)
- Relieves torsional strain (c)
- (iv) **Topoisomerases**
- (d) Initiates synthesis of RNA primers

## Answer options:

- (i) (a)(1)
- (ii) (c)
- (iii) (b)
- (iv) (d)(iv) - (c)

- (2) (i) - (a)
- (ii) (d)
- (iii) (b)
- (3) (i) - (d)
- (ii) (b)
- (iv) (c)(iii) - (a)
- (i) (a)(4)
- (ii) (b)
- (iii) (c)
- (iv) (d)

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# 92. Match the following:

# Unsuitable characteristics

for sustained release

(a) Long t  $\frac{1}{2}$ 

- Drug
- (i) Furosemide
- (b) Absorbed and excreted rapidly
- (ii) Digitoxin
- (c) No effective absorption in lower intestine
- (iii) Diazepam

(d) Low therapeutic index

- (iv) Riboflavin
- (a) (b) (c) (d)
- (1) (i) (iii) (iv)
- (2) (iii) (i) (iv) (ii)
- (3) (i) (iv) (iii) (ii)
- (4) (iv) (i) (iii) (ii)

# 93. In the RNA molecule:

- (a) guanine content does not equal cytosine content.
- (b) guanine content equals cytosine content.
- (c) adenine content does not equal uracil content.
- (d) adenine content equals uracil content.

Answer options :

(1) (b) and (c) only

(2) (a) and (d) only

(3) (a) and (c) only

(4) (b) and (d) only

# 94. Enzyme immobilization makes use of the following material/s as matrix :

- (a) calcium algenate
- (b) kappa carrageenan

(c) furcellaran

(d) none of the above

### Options:

- (1) (a) and (b)
- (2) (c) only
- (3) (d) only
- (4) (a), (b) and (c)

95.	Consider the following:													
	(a)	Chlorhexidine	and sa	lts, phenol										
	(b)	Hexamethylene	tetra	mine										
	(c)													
	(d) Phenyl mercuric acetate													
	Which of the above is/are used as broad spectrum preservatives in emulsion?													
	(1)	Only (a)			(2)	Only	y (c)							
	(3)	(a), (c) and (d)			(4)	All	of the above							
96.	Con	Commercial levels of phenylalanine can be obtained from :												
	(a)	A. niger	(b)	B. subtilis		(c)	E. coli	(d)	C. albicans					
	Opt	ions :												
	(1)	(a) and (d)	(2)	(b) and (c)		(3)	(c) only	(4)	(d) only					
	(1) (2) (3) (4)	Concentration Concentration Collision frequence	of subsency		ed									
98.	When internal stresses in the film exceeds, the tensile strength of the film results in :													
	(a)	Blistering			(b)		cking							
	(c)	Bloom			(d)		ging and Fillir	ng						
	(1)	Only (c)			(2)	Only		Ü						
	(3)	(b) and (c)			(4)	(a),	(b), (c)							
99.	Gibl	perellin, a second	ary m	etabolite of m	icro	bes, is	:							
	(a)	an antibiotic			(b)	an a	nti-ulcer ager	nt						
	(c)	a plant growth	regul	ator	(d)	an i	mmunosuppr	essant						

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(1) (a) and (d) (2) (b) only (3) (c) only (4) (d) only

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- **100.** Which of the following molecule/s is/are **not** steroidal in nature?
  - dafachromic acid (a)
- (b) aramchol

sterchamol (c)

(d) brassinolide

Options:

- (a) only (1)
- (2)(b) and (c)
- (3) (c) only

101. (II)

(I) Compounds (I) and (II) are:

- positional isomers (1)
- (2) chain isomers
- functional isomers (3)
- (4)none of the above
- **102.** Citric acid is the primary metabolite obtained from :
  - Saccharomyces cerevisiae (1)
- (2) Aspergillus niger
- (3) Corynebacterium glutamicum
- Xanthamonas species (4)
- **103.** Consider the following:

(a) 
$$t 10\% = \frac{-\ln 0.90}{K_1}$$

(b) 
$$t 10\% = \frac{0.105}{K_1}$$

Which of the above is/are used to compute shelf life?

Only (a)

(2) Only (b)

Both (a) and (b) (3)

- (4)Neither (a) nor (b)
- 104. The 7 methyl guanosine triphosphate caps at the 5' end of m RNA molecules in mammals are necessary for:
  - processing of primary transcript to m RNA.
  - (b) translation of m - RNA.
  - protection of m RNA. (c)
  - (d) synthesis of DNA.

Answer options:

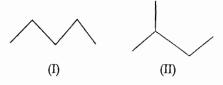
- (a), (b) and (c) only (1)
- (a) and (b) only (2)

(a) alone (3)

(b) and (d) only (4)

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105.



Compounds (I) and (II) are:

- (1)positional isomers
- (2) chain isomers
- (3) functional isomers
- **(4)** geometric isomers
- **106.** A characteristic of vaccines made from live attenuated organisms is :
  - (1) they usually require more than one dose to induce a full immune response.
  - (2)they are prepared using recombinant DNA technology.
  - (3) they trigger both antibody production and cell-mediated responses.
  - **(4)** they trigger antibody production only.
- **107.** The sugar moeity in DNA and RNA, respectively are :
  - (1) ribulose and deoxyribulose
- (2) deoxyribose and ribose
- (3)deoxyribofuranose and furanose (4)
- ribose and deoxyribose

- **108.** Match the following:
  - (a) **Polyalkoxyethers**
- (i) Lauryl alcohol
- (b) Polyalkoxyesters
- (ii) Polyoxyethylene sorbitan acid esters
- (c) Ammonium phosphate
- Polyoxyethylene polyoxypropylene block polymer (iii) Lecithin (iv)
- (d) Fatty alcohols
  - - (a) (b) (c) (d)
- (1) (iii) (ii) (iv) (i)
- (2) (ii) (iii) (i) (iv)
- (3) (iii) (iv) (ii) (i)
- **(4)** (iv) (i) (iii) (ii)
- **109.** FMC corporation has developed patented aqueous enteric coating called as:
  - Aquateric (1)

Aquateric and Eudragit (2)

HPMCP 50 (3)

(4)Aquateric, Eudragit and HP-555

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NOT			22	imarily on the basis of :  Route of administration  Emulsifier cost
IO			22	(B)
10.	A pa	articular class of emulsifier is selec	cted pr	imarily on the basis of :
	(a)	Required shelf life	(b)	Route of administration
	(c)	Type of emulsion	(d)	Emulsifier cost
	Opti	ions:		
	(1)	only (a)	(2)	(a) and (b)
	(3)	(a), (c) and (d)	(4)	none of the above
11.		ners formed by the inter-conversicalled as :	on, bas	sed only on the rotations about single bonds
	(a)	conformational isomers	(b)	conformers
	(c)	rotamers	(d)	stereomers
	Opt	ions :		
	(1)	(a) and (b)	,	
	(2)	(b) and (c)		
	(3)	(c) only		
	(4)	(a), (b), (c) and (d)		
12.	Exce	ess glucose is stored in the body b	y the p	process of :
	(1)	glycogenolysis	(2)	glycogenesis
	(3)	lipolysis	(4)	gluconeogenesis
13.	Test	required for treated soda lime gl	ass i.e ˈ	Type II is/are :
	(a)	Light transmission	(b)	Water attack at 121° test
	(c)	Multiple internal reflectance	(d)	Water vapour permeation
	Whi	ich of the statements given above	is/are	correct?
	(1)	Only (b)	(2)	Both (a) and (b)
	(3)	(a), (b) and (c)	(4)	(a), (b), (c) and (d)
		^		

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A							2:	3			SHIIdentho
14	Mat	ch the	follo	wina							/
11.	IVIA		ılsifie		•		н	ī.R	value		
	(a)		um o			(i)			Varue		
	(b)			nonol	aurat						
	(c)			ioleate		(ii	,				
	(d)			ristea		(iv	•	3.0			
	` '	(a)	(b)	(c)	(d)	(-	,				
	(1)	(i)	(ii)	(iii)	(iv)						
	(2)	(iv)	(ii)	(iii)	(i)						
	(3)	(iii)	(iv)	(i)	(ii)						
	(4)	(iv)	(iii)	(ii)	(i)						
5.	The	precu	rsor fo	or bios	synth	esis of ste	roids	in t	ne body is :		
	(1)	-	yl - Co		•		(2		glycogen		
	(3)	-	no aci				(4		fatty acids		
6.	A ch	nemos	tat is	nothir	ng but						
	(1)				•	elf-balanci	ng cu	ltui	e system		
	(2)					for chemi	•		•		
	(3)					hemostat	•				
	(4)	none	of th	e abo	ve						
17.	Meta	abolisi	m of a	ımino	acids	involves	all of	- the	following except :		
	(1)	tran	samin	ation			(2	)	deamination		
	(3)	beta	oxida	ation			(4	)	citric acid cycle		•
18.	A pe	eriod o	of ada	ptatio	n of r	nicrobes is	s also	ref	erred to as :	•	
	(1)	grov	vth pl	nase	(2)	lag phas	se		(3) log phåse (4	4)	stationary phase
 19.	Age	nts tha	at cut	DNA	at sp	ecific sequ	ences	in	Recombinant DNA	— — 4 Те	echnology are called
	(1)	Exor	nuclea	ıs <b>e</b> s			(2	)	Phages		
	(1)										

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	S
	Which of the following is/are example/s of enteric coated polymers?  (a) Sodium carboxymethyl cellulose  (b) Polyethylene glycols
	TABLE
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20.	Which of the following is/are example/s of enteric coated polymers?
	(a) Sodium carboxymethyl cellulose
	(b) Polyethylene glycols
	(c) Cellulose acetate phthalate
	(d) Acrylate polymers
	(1) Only (b) (2) Only (c) (3) Only (d) (4) All of the above
121.	Reverse phase liquid-liquid chromatography means
	(1) the stationary phase is polar compound and the mobile phase is a non-polar solven
	(2) the direction of flow of the mobile phase is reversed
	(3) the stationary phase is a non-polar compound and the mobile phase is a polar solven
	(4) pre-derivatisation is done to less polar compound
122.	Which of the following statements give the advantages of HPTLC over TLC?
	(a) Sample volumes are in the lower nanolitre range
	(b) Solvent migration is faster
	(c) Efficient for dilute samples after extraction
	(d) HPTLC layers are of finer particle size
	Answer options :
	(1) Only (a) and (b) are correct
	(2) (a) and (c) are incorrect
	(3) (b) and (c) are incorrect
	(4) (d) is correct but (a) and (b) are incorrect
 123.	Scanning densitometer is a part of :
	(1) high pressure liquid chromatograph
	(2) high pressure thin layer chromatograph
	(3) gas liquid chromatograph
	(4) gas solid chromatograph
—— 124.	Which of the following is most affected by the temperature changes in flame photometry?
 124.	Which of the following is most affected by the temperature changes in flame photometry?  (1) absorption spectrometry (2) atomic spectrometry

A		25
125.		gures of merit" used to evaluate the performance characteristics of an analytical nique include:
	(a)	Linearity range
	(b)	Coefficient of selectivity
	(c)	Coefficient of variation
	(d)	Systematic error
	Ans	wer options :
	(1)	(a), (b) and (c) only
	(2)	(a), (c) and (d) only
	(3)	(b), (c) and (d) only
	(4)	(a), (b), (c) and (d)
126.	Squa	alane, the stationary phase used in GLC, is chemically :
	(1)	a high molecular weight saturated hydrocarbon
	(2)	a high molecular weight unsaturated hydrocarbon
	(3)	a low molecular weight complex
	(4)	a high molecular weight complex
127.		drug is manufactured under a name which belongs to another drug then it is known
	(1)	Spurious (2) Misbranded (3) Adulterated (4) Genuine
128.	A M	Tass Spectrometer is linked to a LC so that :
	(1)	exact mass of the mixture can be determined by Mass Spectrometry before it is passed through LC.
	(2)	liquid used as mobile phase in LC is first purified by Mass Spectrometer.
	(3)	substances can be separated in LC and then passed through Mass Spectrometer.

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(4) substances can be separated by Mass Spectrometer and then passed through LC.

				12	
NOI			26	Atomic Absorption Spectrometry a	Se A
129.		0 0	on in	Atomic Absorption Spectrometry a	OLL
	orde		.4.		13
	(a)	Desolvation	(b)	lonization	
	(c)	Nebulization	(d)	Volatilization	
	(e)	Dissociation			
	Ans	wer options :		······································	
	(1)	(c), (a), (d), (e), (b)	(2)	(a), (c), (d), (b), (e)	
	(3)	(d), (a), (e), (c), (b)	(4)	(c), (d), (b), (a), (e)	
130.	Ana	stomosis are typically performed o	on :		
	(a)	blood vessels	(b)	gastro-intestinal tract	, . "
	(c)	urinary tract	(d)	none of the above	
	. ,	ions :	, ,	•	
	(1)	(a) only (2) (a) and (c)	)	(3) (a), (b) and (c) (4) (d) on	dy
 131.	exce	pt:		over Dispersive IR include the fo	llowing,
131.		pt : Sample is exposed to the entire I	R bear	n at a time	llowing,
 131.	exce	pt:	R bear	n at a time	llowing,
131.	exce (1)	pt : Sample is exposed to the entire I	R bear iency	n at a time falls on the detector at a time	llowing,
131.	(1) (2)	pt : Sample is exposed to the entire I Only radiation of a narrow frequ	R bear iency ency a	n at a time falls on the detector at a time occuracy	llowing,
	(1) (2) (3) (4)	pt: Sample is exposed to the entire II Only radiation of a narrow freque Use of laser provides high freque Emission of IR radiation by the s	R bear sency ency a ample	n at a time falls on the detector at a time occuracy	
	(1) (2) (3) (4)	pt: Sample is exposed to the entire II Only radiation of a narrow freque Use of laser provides high freque Emission of IR radiation by the s	R bear sency ency a ample	n at a time falls on the detector at a time accuracy is not detected	
	(1) (2) (3) (4) Whi	pt: Sample is exposed to the entire II Only radiation of a narrow freque Use of laser provides high freque Emission of IR radiation by the s ch of the following detector/s used	R bear iency ency a ample	n at a time  falls on the detector at a time  accuracy  is not detected  as chromatography are mass flow se	
132.	(1) (2) (3) (4) Whi (1) (3)	pt: Sample is exposed to the entire I Only radiation of a narrow freque Use of laser provides high freque Emission of IR radiation by the s ch of the following detector/s used Thermal conductivity	R bear nency a ample d in G (2) (4)	n at a time  falls on the detector at a time accuracy is not detected  as chromatography are mass flow se  Flame ionization  Electron capture	
132.	(1) (2) (3) (4) Whi (1) (3)	Sample is exposed to the entire I Only radiation of a narrow frequency Use of laser provides high frequency Emission of IR radiation by the such of the following detector/s used Thermal conductivity  Photo ionization	R bear nency a ample d in G (2) (4)	n at a time  falls on the detector at a time accuracy is not detected  as chromatography are mass flow se  Flame ionization  Electron capture	
132.	(1) (2) (3) (4) Whi (1) (3) Dru (a)	Sample is exposed to the entire I Only radiation of a narrow frequence of laser provides high frequence Emission of IR radiation by the such of the following detector/s used Thermal conductivity  Photo ionization  g shall be deemed to be misbranded not labelled in prescribed manner.	R bear nency a ample d in G (2) (4)	n at a time  falls on the detector at a time accuracy is not detected  as chromatography are mass flow se Flame ionization Electron capture  is:	
132.	(1) (2) (3) (4) Whi (1) (3) Dru (a) (b)	Sample is exposed to the entire I Only radiation of a narrow frequence of laser provides high frequence Emission of IR radiation by the second of the following detector/s used Thermal conductivity  Photo ionization  g shall be deemed to be misbranded not labelled in prescribed manned colored, coated or polished, dame	R beamers ampled in G (2) (4) ed, if iter	m at a time  falls on the detector at a time accuracy is not detected  as chromatography are mass flow see Flame ionization Electron capture  is:	
132.	(1) (2) (3) (4) Whi (1) (3) Dru (a) (b) (c)	Sample is exposed to the entire I Only radiation of a narrow frequency Use of laser provides high frequency Emission of IR radiation by the such of the following detector/s used Thermal conductivity  Photo ionization  g shall be deemed to be misbranded not labelled in prescribed manned colored, coated or polished, damade to appear better or greater	R beamency and ampled in G  (2) (4)  ed, if it is a general is there	m at a time  falls on the detector at a time accuracy is not detected  as chromatography are mass flow se Flame ionization Electron capture  is:  concealed peutic value than it really is	
132.	(1) (2) (3) (4) Whi (1) (3) Dru (a) (b) (c)	Sample is exposed to the entire I Only radiation of a narrow frequence of laser provides high frequence Emission of IR radiation by the second of the following detector/s used Thermal conductivity  Photo ionization  g shall be deemed to be misbranded not labelled in prescribed manned colored, coated or polished, dame	R beamency and ampled in G  (2) (4)  ed, if it is a general is there	m at a time  falls on the detector at a time accuracy is not detected  as chromatography are mass flow se Flame ionization Electron capture  is:  concealed peutic value than it really is	

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									den
4				2	:7				No.
34.	Higl	h risk of infe	ection and	scarring are ma	ain	ly disadvar	ntages of :		
	(1)	Sutures	(2)	Staples		-	nstrips	(4)	Tissue-glues
35.	Whi	ch of the fol	lowing cor	nmittees advis	es t	the DTAB a	and variou		
	(a)	D.C.C	(b)	D.E.C		(c) C.C	C.U.M	(d)	P.C.I
	(1)	only (a)	(2)	only (c)		(3) (a)	and (b)	(4)	only (d)
136.	Lary	ngoscope is	used to ex	amine :					
	(1)	lungs	(2)	vocal cords		(3) glot	tis	(4)	kidneys
37.	As	per the limit	t test for he	avy metals I.P	., n	nethod D is	nvolves th	e use of	·
	(1)	ignition at	500 to 600	° (2	2)	thioaceta	mide reag	ent	
	(3)	hydrogen	sulphide	(4	4)	sodium s	ulphide		
38.	Duti	ies of govern	nment anal	yst are :					
	(a)	To analyse	or test the	samples of dr	ugs	and cosm	etics		
	(b)	To investig	gate any co	mplaint in wri	tin	g made to	him		
	Whi	ch of the ab	ove statem	ent/s is true?					
	(1)	Only (a) is	true	. (2	2)	Only (b) i	s true		
	(3)	Both (a) ar	nd (b) are t	rue (4	<b>1</b> )	Neither (a	a) nor (b)	is true	
39.	The	efficiency o	f a column	in chromatogi	rap.	hy is defin	ed in term	ns of	·
	(1)	shape of th	ne peaks ol	otained (2	2)	retention	factor		
	(3)	variance p	er unit len	gth (4	1)	selectivity	factor		
140.				act that deals v		•	rs to be s	hown in	manufacturin
	Opt	ions :							
	(1)	Schedule	V	(2	2)	Schedule	X		

**141.** Consider the following with respect to UV spectroscopy:

- $\sigma$  to  $\sigma^*$  transitions occur in compounds having no lone pair of electrons (a)
- n to  $\sigma^*$  transitions occur in saturated compounds with no lone pair of electrons (b)
- Student Bounty.com aliphatic alcohols are used when measurements are made in the 200 to 260 nm (c) range
- Saturated hydrocarbons are used when measurements are made in the 200 to (d) 260 nm range

### Answer options:

- Only (a) and (b) are correct (1)
- (2)Only (a), (b) and (d) are correct
- (3) Only (d) is incorrect
- (4)Only (b) and (d) are correct

### 142. Schedule Y deals with:

- manufacture of new drugs (a)
- standards for cosmetics (b)
- standards for ophthalmic preparations (c)
- requirements and guidelines for clinical trials (d)
- (1) only (a)

(b) and (c) (2)

(3) (a) and (d)

- (a), (b) and (d) (4)
- 143. Arsine gas in the limit test for arsenic is produced by the reaction between:
  - H<sub>3</sub>AsO<sub>3</sub> and H<sub>2</sub>SnO<sub>3</sub> (1)
- H<sub>3</sub>AsO<sub>4</sub> and H<sub>2</sub>SnO<sub>2</sub> (2)

(3) H<sub>3</sub>AsO<sub>3</sub> and H<sub>2</sub> (4) H<sub>3</sub>AsO<sub>4</sub> and H<sub>2</sub>

### **144.** Which of the following statements is/are true?

- Drug inspector has no financial interest in the import, manufacture or sale of drugs. (a)
- Drug inspector is a public servant. (b)
- (c) Drug inspector should have qualifications as per section 20 of the Act.
- (1)Only (a)

Only (b) (2)

(a) and (b) (3)

All of the above (4)

war (Carter)												
												(a), (b) and (c
A							29					
145.	A dı	rug sa	mple	taken	by dr	ug inspecto	or for a	analys	is is sent to	o :		`
	(a)	Dru	g Cor	ntrolle	r		(b)	Stat	e Drug Lal	borato	ry	
	(c)	Exc	ise Co	mmis	sioner		(d)	Gov	ernment A	nalyst	:	
	(1)	(a) a	and (b	<b>)</b>	(2)	only (b)		(3)	only (d)		(4)	(a), (b) and (c
146.	Dith	ione,	used :	in the	limit	test of lead	, is che	emical	ly :			
	(1)	dipl	henylt	hioca	rbazo	ne	(2)	dipl	nenylthioa	zone		
	(3)	dim	ethylt	thioca	rbazo	ne	(4)	dim	ethylthioa	zone		
147.	A je	t sepa	arator	in LC	-MS,	works on t	he pri	nciple	of			
	(1)	Ven	ıturi a	ction								
	(2)	Solu	ıbility	of a s	epara	ted fractior	in an	elaste	omer			
	(3)		-			ile phase in						
	(4)	Peri	meabil ———	lity of	a sep	arated frac	tion th	rough	an elastor	mer ———		
148.	Cons	sider	the fo	llowir	ng:							
	(a)	The	Drug	Conti	rollor	of India						
	(b)	The	Direc	ctor, C	entral	Drug Lab	oratory	y				
	(c)	The	Presi	dent, l	Pharm	nacy Counc	il of Ir	ndia				
	(d)	The	Direc	tor Ge	eneral	of Health 9	Service	es				
	Whi			ne abo	ve is	the chairma	an of t	he Dr	_	cal Ad	lvisory	Board ?
	(1)	(a) (	only		(2)	(c) only		(3)	(d) only	(4)	Non	e of the above
149.	Mate	ch the	follo	wing :	:							
	Sche	edule			Fact	ory Premis						
	(a)	M			(i)	manufact						
	(b)	M II			(ii)	manufact		_				
	(c)	M II	I		(iii)				eopathic dr	•		
	(d)	ΜI	arr -		(iv)	manufact	ure of	medi	cal devices			
	(4)	(a)	(b)	(c)	(d)							
	(1)	(i)	(ii)	(iv)	(iii)							
	(2)	(ii)	(i)	(iv)	(iii)							
	(3)	(ii)	(i)	(iii)	(iv)							
	(4)	(i)	(ii)	(iii)	(iv)							

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NOI					30				19	ne	A
150	Hon	nostat is used to							`	100	12
150.		degrade heme	•								12
	(1)	O	a duri	na curao	.w. 7						.6
	(2) (3)	control bleedir stop degradati	•	0	•						
	(4)	none of the ab		aemogic	) DIM						Ì
151.	disc Whi	ecent report by the usses the vulner ch of the below People with bl	ability mentic	of peop oned stat	ole to hear ements ar	rt dise e true	ease i e acco	n relation	to thei	r bloo	
	(a) (b)	People with ty		-				nle			
	(c)	The order of d	•	Ü	•						
	(d)	There is no rel		•	-				rt disea	ise.	
	(1)	Only (b) is true		ourid bei	(2)	•	-	) are true			
	(3)	Only (d) is true			(4)	` '	` '	ne above			
152.	Perr	mitted daily expe	osure f	or class	II solvents	s is					
	(1)	0.1 mg / day			(2)		g / da	y			
	(3)	10 mg / day			(4)		 mg /	-			
			_	,						<del>_</del>	
153.		proval for the fir			` _		•		e) table	t to tre	eat type
		etes has been gr		•	to which	of the	com	panies ?			
	(a)	Mylon pharma									
	(b)	Cadila pharma									
	(c)	Pfizer pharma									
		Orthobiotech I	vt. Lto	1		(2)	( )	1 -	(4)	(1)	.1
	(d)		(0)	/1-\	1 (-)		(2) (	only	141	1010	niv
	(d) (1)	(a) and (b)	(2)	(b) and	l (c) 	(3)	(u) (		(4)	(d) o	
 154.	(1) Out		ons me	ntioned							
 154.	(1) Out	(a) and (b) of the publication	ons me	ntioned		e or n		are not co			
 154.	(1) Out Indi	(a) and (b)  of the publication	ons me	ntioned	below on	e or n	nore a	are not co			
154.	Out Indi (a) (c)	(a) and (b)  of the publication	ons me	ntioned	below one	e or n	nore a	are not co			

A		31 StrudentBou	
<b>155</b> .	Whic	ch of the following sections of population are beneficiaries of the ICDS programme?  Women above 60 years	
	(a)	Women above 60 years	OB
	(b)	Children below 6 years	
	(c)	Pregnant and lactating women	
	(d)	Women in the age group 15-44 years	1
	(1)	(a), (c) and (d)	
	(2)	(b), (c) and (d)	
	(3)	(a), (b), (c) and (d)	
	(4)	(a), (b) and (d)	

<b>156.</b>	New drugs	recommended	by	NDAC f	or	marketing	without	clinical	trial	:
-------------	-----------	-------------	----	--------	----	-----------	---------	----------	-------	---

- Cabazitaxel (a)
- Crizotinib (b)
- Degarelix (c)
- Clopidoprel (d)

- (1)(a) and (b)
- (2) (a) and (c)
- (3) (a), (b), (c)
- (4)(a) and (d)

# 157. "Cannabis (hemp)", according to Narcotics and Psychotropic Substances Act, 1985 includes

- (a) ecgonine and all its derivatives from which ecgonine can be recovered.
- ganja, that is, flowering or fruiting tops of the cannabis plant. (b)
- phenanthrene alkaloids, such as morphine and codeine. (c)
- (d) charas, that is resin obtained from cannabis plant.
- (1)(a), (c) and (d)

(a) and (d) only (2)

(3) (b), (c) and (d) (4) (b) and (d) only

# 158. The Clinical Trials Registry India has been set up with which of the following objectives?

- (a) Improve transparency and accountability of clinical trials.
- (b) Conformation of clinical trials to accepted ethical standards.
- Reporting of all relevant results of registered clinical trials. (c)
- (d) Advise regarding recruitment of subjects for clinical trials.
- (1)(a) and (b) only

(c) and (d) only (2)

(3) (a), (b) and (c)

(b) and (c) only (4)

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NOI					. 32				GOLL V
159.	The	Central Drugs Au	thori	ty has follow	wing	functio	onal divisions :		12
	(a)	Regulatory and l	Enfo	cement	•	,			10
	(b)	New Drugs and	Clini	cal Trials					
	(c)	Issue of licences	for re	tail sale of o	drugs				
	(d)	Imports of Drugs	s and	Cosmetics					
	(1)	(a), (b) and (d)		77-2	(2)	(b), (	c) and (d)		
	(3)	(a), (b), (c) and (d	d)	• :	(4)	(a) a	nd (c) only		
160.	The	NPPA has issued c	larifi	cation in July	y 2012	2, in the	press that pric	e of one	of the following
	drug	gs has not been rais	sed -	which drug	g is it				
	(1)	Norfloxacin			(2)	Cefo	taxime		
	(3)	Insulin			(4)	Vitar	nin C		
161.	The	Systemic Antidote	e for	Acetamino	phen	is	·		
	(1)	Atropine			(2)	Activ	ated charcoal		
	(3)	N-acetyl cysteine	9		(4)	EDT	A		
162.		ch of the two mo	odul	es have be	en re	cently	added in go	od phai	macovigilance
	(a)	Module III phari	maco	vigilance m	onito	ring			
	(b)	Module X Addit	ional	monitoring	;	C			
	(c)	Module V Risk n	nana	gement syst	em				
	(d)	Module II pharm	nacov	rigilance sys	tem r	naster	file		
	(1)	(a) and (b)	(2)	(b) and (c)	)	(3)	(a) and (d)	(4)	(c) and (d)
163.	Con	sider the following	g stat	ements :					
	(a)	Chronic toxicity	may	not be of in	nport	ance ir	antidote use.		
	(b)	An antidote whi	•		•			cacy is u	ncertain.
	(c)	A toxic antidote			•			•	
	(d)	An antidote may	•						
		ch of the above sta							
	(1)	(a) and (b) only			(2)	(a) a	nd (c) only		
	(3)	(a), (b) and (c)			(4)		b) and (d)		

								_			
									Stude		
A	Compulsory licence has been granted for Anti cancer drug by Indian Patent Office to:  (1) Khandelwal Lab  (2) Natco Vs Bayer  (3) Panacea biotech  (4) Sandoz Vs GSk										
164.	Compulsory licence has been granted f					nti car	ncer drug by Indian	Patent C	office to :		
	(1)	Khandelwal Lal	)		(2)	Nate	co Vs Bayer				
	(3)	Panacea biotech	l		(4)	Sand	doz Vs GSk				
165.	The	requirement and	guid	elines for c	ontract	t resea	rch comes under w				
	(1)	Sch M	(2)	Sch y-1		(3)	Sch C	(4)	Sch X		
166.	Whi	ch of the followin	g dru	gs may be	used f	for pro	ophylaxis of malaria	ı ?			
	(a)	Chloroquine			(b)	Dox	ycycline				
	(c)	Ciprofloxacin			(d)	Met	ronidazole				
	(1)	(a) and (c) only									
	(2)	(a) and (d) only									
	(3)	(a) and (b) only									
	(4)	(a), (c) and (d)									
167.		•				•	completed phase I t				
	(a)	Sanofi pharma			(b)	Hika	al Ltd.				
	(c)	Glenmark pharr	nacei	ıticals	(d)	Jubi	liant pharma				
	Opt	ions :									
	(1)	(a) and (b)	(2)	(a) and (	c)	(3)	(a), (b) and (c)	(4)	Only (c)		
168.	According to DPCO, 1995, "Scheduled formulation" includes :										
	(a)										
	(b)		ntaini	ng bulk di	ug spe		in first schedule in				
	(c)	Any single drug generic name.	g form	nulation ba	sed or	n d <b>ru</b> g	specified in first se	chedule s	old unde		
	(d)	Formulation con	taini	ng d <b>ru</b> gs n	ot spec	cified	in first schedule.				
	(1)	(c) only			(2)	(a),	(b), (c) and (d)				
	(3)	(b) (c) and (d)			(4)	(2) 3	and (b) only				

NOI			34	nit, 2012" organised by Governme by one of the following personalities of India								
169.	Inau	Inaugural address at "Two day Polio Summit, 2012" organised by Governmen										
	and	and Rotary International at Delhi was given by one of the following personalities										
	(1)	Dr. Manmohan Singh Prime Minister of India										
	(2)	Mr. Kalyan Banerjee President of Rotary International										
	(3)	Mr. Amitabh Bacchan										
	(4)	Ghulam Nabi Azad, Union F	Health Mi	nister								
170.	Rece	ently USFDA has approved a r	new drug	for diabetic Macular edema named :								
	(1)	Ranibizumab inj	(2)	Thiabendazol								
	(3)	LAMA/LABA	(4)	Prasugrel								
 171.	ISO 14000 is primarily concerned with one or more than one of events mentioned below :											
	(1)	Chemical safety	(2)	Automotive belts								
	(3)	Quality management	(4)	Environmental safety								
172.	According to a report published in the 'Lancet' and reported in news print media, what is/are Africa's new health problem/s?											
	(a)	War and poverty	(b)	Famine and disease								
	(c)	Obesity	(d)	HIV-AIDS								
	(1)	(a) and (b) both	(2)	(a), (b) and (d)								
	(3)	(c) only	(4)	(d) only								
173.	India	a's First Indigenously develop	ed new m	edicine by Ranbaxy is								
	(1)											
	(2)											
	(3)	Amodiquine + Sulfadoxine Pyrimethamine										
	(4)	-										
		Recently, which of the following anti-epileptic drugs has been reported to reverse memor loss due to Alzheimer's disease in mouse model?										
 174.				-								
 174.				-								

175. <sub>.</sub>					35					Students ise?
	Whi	ch Antidiabetic	drug h	as been rec	ently 1	banne	d in India fo	or hu	man u	ıse?
	(1)	Rosiglitazone			(2)	Chlo	orhexidine			
	(3)	Nateglinide			(4)	Ace	tohexamine	<b>!</b>		
76.	Wha	t will be the nex	kt term	in the give	n sequ	ience '	? Find it fro	om gi	ven al	ternatives.
	ADE	e, CFG, EHI, GJI	ζ, ?							
	(1)	IML	(2)	ILM		(3)	MIL		(4)	LMI
*,	valu (1)	e of 18 Q 12 P 4 53	R 5 T (2)	6 ? 56		(3)	59	£	(4)	65
		<u> </u>				-				
		DT' in molestad to	'WX' a	nd 'RD' is i	ralatad			11 1	1	L _
8.					leiaieu			II be i		l to
78.		NP	(2)	OR	retated	(3)	OQ	II be i	(4)	PR
	(1) First		(2) ne défir	OR  nite relation r serial nur	nship v mber f	(3) vith th	OQ ne second. I		(4) the giv	PR  ven alternatives
	(1) First selection	NP word bears son	(2) ne défin vord fo second	OR  nite relation r serial nur	nship v mber f	(3) vith th	OQ ne second. I		(4) the giv	PR  ven alternatives
	(1) First selection	NP word bears somet the suitable well word, that the	(2) ne défin vord fo second	OR  nite relation r serial nur	nship v mber f	(3) vith th	OQ ne second. I		(4) the giv	PR  ven alternatives
79.	First selecthird Book (1)	word bears somet the suitable well word, that the	(2)  ne define for second tue:? (2)	OR  nite relation r serial nur l has with  Binder neans 'Red	nship v mber f the firs	(3)  vith th our, vist.  (3)	OQ  ne second. If which bears  Sculptor  k', '589' me	From the s	the girame re (4)  Green	PR  ven alternatives elation with the Calligraphist

(2) 12

(1) 8

P.T.O.

(4) 7

(3) 9

Student Bounty.com 182. Four numbers in each square are according to some formula. Find it and from that the value of 'A', from given alternatives.







5 (1)

(2)6

(3) 8

**(4)** 7

183. In a code language PROBLEM is written as MPERLOB. How NUMBERS will be written in that code language?

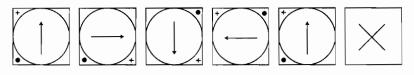
SNUREMB (2) (1)

SNRUBME (3)

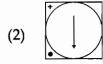
SNRUEMB (4)

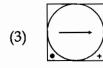
SNRUMEB

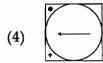
**184.** Which of the figures in given alternatives belongs to the space marked 'X'?



(1)







185. What will be the next term in the given series?

BBCBCDBCDEBCDEFBCDEFGBCDEF\_

(1) В (2)G (3)Η

D (4)

**186.** Which letter should go in the blank space?



D (1)

(2)Ε

F (3)

**(4)** G

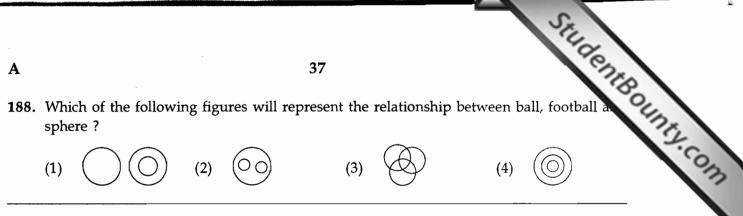
187. In a certain code READ is written as # 5% 6 and PAID is written as \$ % 4 6. How RIPE will be written in that code?

(1) #4\$5

#6\$5 (2)

(3)\$4#5

\$4#6 **(4)** 



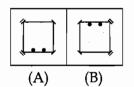


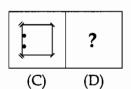


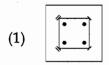


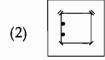
(4)	

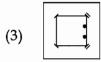
189. There is a definite relationship between figures A and B. Establish the similar relationship between figures C and D, by choosing a suitable figure from given alternatives.













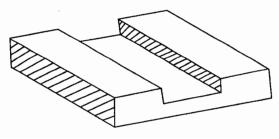
190. Some boys are standing in a row, facing towards North. Ajay is 12th from left. If he moves four places to right, he appears at the place, 18th from right'. What is the total number of boys in the row?

32 **(1)** 

33 (2)

(3) 34 **(4)** Information is not sufficient

191. A wooden block is shown in the figure. How many different surfaces does the block have?



(1) 8

(2) 9 (3) 10 (4)7

192. Find the missing terms in the given series:

5, 10, 17, 26, 37, \_

50, 65 (1)

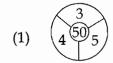
45, 65 (2)

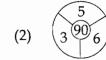
(3) 50,60 **(4)** 50, 75

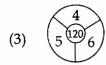
कच्या कामासाठी जागा /SPACE FOR ROUGH WORK

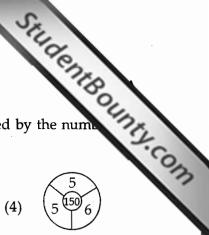
P.T.O.

193. The numbers in three figures follow some rule, which is not followed by the numbers one figure. Find the figure, which is different from others.









194. Out of the four groups of letters, three are similar in some way. Find the odd one.

- (A) H K
- (B) B D
- (C) F I
- (D) M P

- (1) (A)
- (2) (C)
- (3) (D)
- (4) (B)

195. Out of the four given figures, three are similar in some way. Choose the figure which is different from the rest.





(2)



(3)



(4)

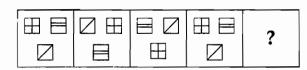


196. Select the numbers from given alternatives, which will complete the given sequence.

109, \_\_\_\_\_, 95, \_\_\_\_\_, 81, 74

- (1) 102, 87
- (2) 102, 88
- (3) 103, 88
- (4) 101, 89

**197.** A figure series is given with a blank space shown by (?). Select the suitable figure from given alternatives, which will continue the same series.



(1)



(2)



(3)

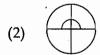


(4)











(4)	

199. In column I groups of letters and in column II, the codes for them are given, not necessarily in the sequence. Each number stands for a letter. What is the code for 'C'?

Colu	ımn I	•	Column II							
(Gro	ups o	of Letters)		(Codes)						
Α	N	P			5	2	4			
N	M	С			1	2	3			
P	M	Α		٠,	3	4	1			
(1)	5		(2)	4			(3)	3	(4)	2

200. The relation between the two terms to the left of '::' and that between the two terms to the right of '::' is same. Find the term at (?) from given alternatives.

AY: CW::?:GS

- (1) E V
- (2) UE
- V E **(**3)
- ΕU (4)

- o 0 o -

40

NOI

# सूचना — (पृष्ठ 1 वरून पुढे....)

(9) सदर प्रश्नपत्रिकेसाठी आयोगाने विहित केलेली वेळ संपल्यानंतर उमेदवाराला ही प्रश्नपुस्तिका स्वत:बरोबर परीक्षाकक्षाबाहेर घेऊन जाण्यास परवानगी आहे. मात्र परीक्षा कक्षाबाहेर जाण्यापूर्वी उमेदवाराने आपल्या उत्तरपत्रिकेचा भाग-1 समवेक्षकाकडे न विसरता परत करणे आवश्यक आहे.

# नमुना प्रश्न

- प्र. क्र. 201. The Catch varies inversely with the size of the :
  - (1) nozzle

(2) droplet

(3) obstruction

(4) sprayer

ह्या प्रश्नाचे योग्य उत्तर ''(3) obstruction'' असे आहे. त्यामुळे या प्रश्नाचे उत्तर ''(3)'' होईल. आता खालीलप्रमाणे प्रश्न क्र. 201 समोरील उत्तर-क्रमांक ''③'' चा कंस खालीलप्रमाणे पूर्णपणे छायांकित करून दाखिवणे आवश्यक आहे.

प्र. क्र. 201. (1) (2) (4)

अशा पद्धतीने प्रस्तुत प्रश्नपुस्तिकेतील प्रत्येक प्रश्नाचा तुमचा उत्तरक्रमांक हा तुम्हाला स्वतंत्ररीत्या पुरविलेल्या उत्तरपत्रिकेवरील त्या त्या प्रश्नक्रमांकासमोरील संबंधित वर्तुळ पूर्णपणे छायांकित करून दाखवावा. ह्याकरिता फक्त काळ्या शाईचे बॉलपेन वापरावे, पेन्सिल वा शाईचे पेन वापरू नये.