

वेळ : 2 (दोन) तास

दुव्ये विज्ञाल, गट- अ चाळगी परीक्षा, २००२

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BOOKLET NO.

प्रश्नपुस्तिका

चाळणी परीक्षा/SCREENING TEST

एकूण प्रश्न : 200

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शेवटचा अंक

सूचना

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.

↑ केंद्राची संकेताक्षरे वर छापलेला प्रश्नपुस्तिका क्रमांक तुमच्या उत्तरपत्रिकेवर विशिष्ट जागी उत्तरपत्रिकेवरील सूचनेप्रमाणे न विसरता नमूद करावा.

- 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 नुमूद 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 खोडन नव्याने उत्तर दिल्यास ते तपासले जाणार नाही.
- प्रस्तृत परीक्षेच्या उत्तरपत्रिकांचे मुल्यांकन करताना उमेदवाराच्या उत्तरपत्रिकेतील योग्य उत्तरांनाच गण 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 <mark>गैरप्रकारांना प्रतिबंध</mark> 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.

पढोल सुचना प्रश्नपस्तिकेच्या अंतिम

ग ty6 उद्य सील 40 सूचनेविना पर्यवेक्षकांच्या

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3 NOI A 1. What is true of affinity tags? Affinity tags are long peptide sequences. (1)(2) Affinity tags have 4 consecutive tyrosine residues. (3) Affinity tags have 6 consecutive histidine residues. (4)Affinity tags have 8 different amino acid residues. 2. Which anticoagulants are permitted to be used for storing whole Human Blood as per IP? (a) Anticoagulant Citrate Dextrose solution (ACD) (b) Anticoagulant Citrate Phosphate Dextrose solution (ACPD) Low Molecular Weight Heparins (LMWHs) (c) (d) Sodium Warfarin (a) and (b) (c) and (d) (1)(2) (a) and (c) (3)(4)(b) and (c) 3. Place the steps involved in hemostasis in the correct order of their occurrence: Conversion of fibrinogen to fibrin (a) (b) Conversion of prothrombin to thrombin (c) Activation of intrinsic or extrinsic pathway (d) Formation of prothrombinase. (a), (c), (d) and (b) (1)(a), (b), (c) and (d) (3)(c), (d), (b) and (a) (4) (c), (b), (d) and (a) What is the correct combination of temperature and duration of storage respectively for 4. preservation of Cryoprecipitate? -20°C for 6 months (1)-20°C for 9 months (2)-30°C for 9 months (3)(4)-30°C for 12 months What is the maximum volume of blood advised to be donated within consecutive period of 12 months? (1) 1.0 L 1.2 L (2)(3)1.5 L (4)1.8 L Which chemical is released by platelets when they adhere to the damaged wall? Histamine 5 - Hydroxytryptamine (1)(2) (3)Acetylcholine (4)Adrenalin कच्चा कामासाठी जागा /SPACE FOR ROUGH WORK

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- 7. How many types of antigens have been detected on the surface of Red Blood Cells?
 - (1) Five

(2) Ten

(3) Fifty

- (4) More than one hundred
- 8. In which disease, Type IV Hypersensitivity reaction causes chronic intestinal inflammation and obstruction ?
 - (1) Contact dermatitis
- (2) Rheumatoid arthritis

(3) Crohn disease

- (4) Multiple sclerosis
- 9. What is not true of the Haemolytic disease of newborns?
 - (a) It can affect malnourished newborns.
 - (b) Causes jaundice.
 - (c) Occurs because of incompatible blood transfusion in newborns,
 - (d) Can be prevented by injecting the mother with anti-Dagglutinins just after delivery.
 - (1) (a), (b) and (c)

(2) (a) and (d)

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

- (4) (a), (b), (c) and (d)
- 10. When is HBIG administered to an infant born 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. What is not true of the composition of blood?
 - (a) Plasma forms 91.5% of blood.
 - (b) WBCs are largely responsible for the viscosity of blood.
 - (c) Albumins form the major group of plasma proteins.
 - (d) Macrophages are a type of circulating RBCs.
 - (1) (a), (b), (c) and (d)
- (2) (a), (b) and (c)

(3) (a), (b) and (d)

- (4) (a), (c) and (d)
- 12. Which hemopoietic growth factor regulates conversion of myloid stem cells to myloblasts?
 - (1) Colony Forming Unit Erythrocyte
 - (2) Colony Forming Unit Leukocyte
 - (3) Colony Forming Unit Granulocyte Macrophage
 - (4) Colony Forming Unit Erythropoietin

5 NOI A What is not true of the cord stem cells? **13**. They are easily collected. They are more in stem cells than in red bone marrow. (b) (c) The match between donar and recipient has to be exact in a transplant. (d) Less likely to transmit infections. (1) (b) (2)(a) and (d) (3)(d) (4) (c) 14. What is not true of the intrinsic pathway of coagulation? It is fast and simple. (1)(2)Its activators are in direct contact with blood. (3)Outside tissue damage is not needed. (4)Contact with collagen fibres activates factor XII. **15.** The following is true about anaphylactic reactions: Occurs within a few minutes after exposure to allergen in a previously sensitised person. (b) IgE antibodies and mast cells play an important role (c) Rheumatoid Arthritis is an example. Penicillin can cause it in a few people (d) (1)(a), (b), (c) and (d) (a), (b) and (c) **(2)** (3)(a), (b) and (d) (4)(b), (c) and (d)

16. Which organism is known to cause Lymphogranuloma Venereum in both the sexes?

- (1) Neisseria gonorrhoeae
- (2) Trichomonas vaginalis
- (3) Treponema pallidium
- (4) Chlamydia trachomatis

17. What is true of the Genital Herpes?

- (a) It is not curable
- (b) It is recurrent
- (c) Caused by HSV 2
- (d) Chancres are produced in advanced stages.
- (1) (a), (b), (c) and (d)
- (2) (a), (b) and (c)

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

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

कच्चा कामासाठी जागा /SPACE FOR ROUGH WORK

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18.		muc ain ?	h min	imum	perc	ent Haemo	globin	conte	ent (W/V) s	hould who	le Human	Blood
1-	(1)	11.1			(2)	10.2		(3)	9.7	(4)	8.5	
19.		ch typ ıflamn			ly cau	ses anaphy	laxis le	eading	to vascular	dilation an	d edema l	eading
	(1)	IgE			(2)	IgA		(3)	IgD	(4)	IgM)
20.	Wha	t is th	e che	mical	natur	e of antige	ns pre	sent o	n the surfac	e of RBCs	2	
	(1)	Phos	spholi	pid	(2)	Glycolipi	d (3)	Lipo	poly saccha	aride (4)	Glycopi	otein
21.	Whi	ch org	gan or	its pa	art is a	affected by	ureap	lasma	urealyticum	n ?		
	(1)	Uret	er		(2)	Urethra		(3)	Nephron	(4)	Glomer	ulus
}₁ 22.	Mate	ch the	blood	d grou	ıp wit	h the colou	ır sche	me of	the labels :			
	Colu	ımn A	\			Col	umn E	3				
	(Blo	od gro	oup)			(La	bel co	lour)				
	(a)	0				(i)	Yell	ow				
	(b)	Α				(ii)	Whi	te				
	(c)	В				(iii)	Blue	2				
	(d)	AB				(iv)	Pink	(
		(a)	(b)	(c)	(d)							
	(1)	(iii)	(i)	(iv)	(ii)							
	(2)	(iii)	(i)	(ii)	(iv)						ě	. *
,	(3)	(iv)	(iii)	(i)	(ii)							
	(4)	(i)	(iii)	(iv)	(ii)							
23.	HIV	main	ly dar	nages	follov	wing types	of cell:	s.				
Y	(1)	Halp	er T	cells			(2)	Nati	ıral Killer C	Cells		
	(3)	Red	blood	ce lls			(4)	Eosi	nophils			

7 NOI A 24. Which of the following is/are activated by thromboplastin? Fibrinolytic system (b) Extrinsic coagulation pathway Platelet aggregation (c) (d) Graft Vs host reaction (1)(b) only (2) (a) and (c) (3)(b) and (d) (4)(a), (b), (c) and (d) 25. A hematocrit of 40 indicates the following: (1)Blood forms 40% of body fluids. (2)RBCs form 40% of the total volume of blood. (3)RBCs, WBCs and platelets together form 40% of the total volume of blood. (4)Haemoglobin is 40% lower than normal range. 26. Fill in the blank. Tissue type plasminogen activator (t - PA) that cleaves plasminogen to form plasmin is a enzyme. (1)Nuclease (2)Amylase (3)Protease Lipase What is the quantum of formed elements in whole blood? 45% 55% (1)40% (2)(3)(4)60% 28. Which are the two most important constituents of Fibrin sealant kit? (1)Fibrinogen and thrombin Prothrombin and thrombin (2)(3)Fibrin and Fibrinogen (4)Vitamin K and thromboplastin 29. When did the Government of India publish National Blood Policy? (1) 1950 1991 2002 (4)2010 (2)(3)Which is the most common viral antigen found on the surface of HIV? P 24 (4)P 8080 (1)(2)P 12 (3)P 3128

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31.	Wha	What are the anti - viral drugs recommended for treatment of H1N1 viral 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.	Wha	at drugs are used	d to ter	minate early	/ preg	nancy	y ?							
	(a)	Finasteride	(b)	Tamoxifen	ì	(c)	Clo	niphene	(d)	Mifepristone				
	(1)	(a) and (b)	(2)	(b)		(3)	(c)		(4)	(d)				
33.	Wha	at is not true of	- oxytoci	n ?										
	(a)	It acts through	a pro	ein coupled	recep	tors.								
	(b)	Number of ox	ytocin :	receptors inc	rease	in la	te pre	gnancy.						
	(c)	It is used in ut	erine ii	nertia.				4						
	(d)	Estrogens dese	ensitize	uterus to ox	kytoci:	n.								
	(1)	(a) and (b)	(2)	(b) and (d))	(3)	(c)		(4)	(d)				
34.	Wha	at is the threshol	d limit	value for ch	nlorof	orm a	t a w	orkplace ?						
	(1)	2 ppm	(2)	3 ppm		(3)	5 pp	om	(4)	10 ppm				
35.	Wha	at is the main sit	e of ac	tion for stere	oid ho	rmon	es?							
	(1)	Cytoplasm	(2)	Plasma me	embra	ne	(3)	Nucleus	(4)	Mitochondria				
36.	In w	which of the follo	owing (organs Fluor	ide ar	nd Le	ad ge	t concentra	ated ?					
	(1)	Body fat			(2)	Intra	avascı	ılar space						
	(3)	Extracellular s	pace		(4)	Bone	es	•						
37.	Whi	ch of the follow	ing ant	iepileptic dr	ugs a	cts as	a GA	.BA transa	minse i	nhibitor ?				
	(1)	Sodium valpro	oate		(2)	Viga	abatri	n						
	(3) Tiagabine (4) Gabapentine													
38.	Whi	ch of the follow	ing dru	gs is given d	luring	hype	ertens	ive emerge	encies a	s a IV infusion ?				
	(1)	Nifedipine			(2)	Nitr	oglyc	erine						
	(3)	Sodium Nitrop	orussid	e	(4)	Prop	orano	lol						

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39.	Wha	at is not true of	the med	chanism of	action	of loc	cal anaesthetics	?	
	(a)	They block co	onductio	n of Na+ ic	ns.				
	(b)	A resting ner	ve is ver	y sensitive	to its a	ction.			
	(c)	Small unmye	linated (C fibers are	blocke	ed bef	ore the larger f	ibers.	
	(d)	The drug ent	ers the c	ell in charge	ed for	m.			
	(1)	(a)	(2)	(b)		(3)	(c) and (d)	(4)	(d)
40.	Wha	at is the duration	on of eac	h cycle of n	on - r	anid e	eve movement	(NREM)	sleen ?
10.	(1)	90 min	(2)	10 min	OII I	(3)	60 min	(4)	30 min
	(1)	70 Hull	(2)	10 min		(3)	OU IIIII	(4)	50 Hilli
41.	Wha	nt is not true of	primaq	uine ?				0	
	(a)	It is not usefu			mpto	matic	malaria.		
	(b)			•	-		vivax and P. ov	pale.	
	(c)	Used for proj		-					
	(d)	Contraindicat							
	(1)	(a) and (b)	(2)	(b) and (c			(3) (c)	(4)	(d)
42.	Wha	at do untoward	reaction	ns to sulfon	amide	s incl	ude ?		
	(a)	Haemolytic a	naemia						*
	(b)	Discoloured t	teeth						
	(c)	Crystaluria							
	(d)	Kernicterus							
	(1)	(a), (b), (c) an	id (d)		(2)	(a), ((c) and (d)		
	(3)	(a), (b) and (d	1)		(4)	(b), ((c) and (d)		
43.	Whi	ch of the follow	ving Che	elators is pre	ferred	in th	e treatment of	Wilson's	disease?
	(1)	Unithiol			(2)	D - 1	Penicillamine		
	(3)	EDTA			(4)	Defe	eroxamine		
11	TATE:	ch of the follow	vina ant	iviral druce	ic ton	ically.	used for HCV	koratitio	2
44.		ch of the follow	Ū	7	ь юр				
_	(1)	Gancyclovir	(2)	Acyclovir		(3)	Idoxuridine	(4)	Amantadine

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45.	Whi		wing inj	ectable local ane	sthetic	s is administered	d only	in subarachnoid
	(1)	Procaine	(2)	Amithocaine	(3)	Bupivacaine	(4)	Lignocaine
46.	On	which of the o	pioid rec	eptors does met	hadon	e act predomina	ntly ?	
	(1)	Delta	(2)	Kappa	(3)	Mu	(4)	Sigma
47.	Whi	ich of the follov	ving me	tals is primarily l	bound	in skin, hair and	d nails	?
	(1)	Lead	(2)	Copper	(3)	Zinc	(4)	Arsenic
48.	Whi	ich of the follow	ving clas	sses of drugs are	used i	n dry unproduc	tive co	igh ?
	(a)	Mucolytics						
	(b)	Expectorants					Y	
	(c)	Anti - tussive	s					
	(d)	Anti - histam	inics					
	(1)	(a) and (b)	(2)	(a) and (c)	(3)	(c) and (b)	(4)	(c) and (d)
49.	Wha	at is the major :	oute of	absorption for el	ement	al Mercury ?		
	(1)	Respiratory t		(2)		trointestinal trac	rt	
	(3)	Skin		(4)	Eyes			
 50.	Hae	molysis with p	rimaquii	ne due to G - 6 -	PD de	ficiency is an exa	ample o	of:
	(1)	Genetic defec	t leading	g to variation in	drug a	iction	•	
	(2)			ification in drug				
	(3)	Cross toleran						
	(4)	Tachyphylax	is					
51.	Wha	at is true of per	icillamii	ne ?				
	(a)	It is a narrow	spectru	ım antibiotic.				
4	(b)	It is orally abs	•					
	(c)	-		rcury, zinc and l	ead.			
	(d)	_	_	ause cutaneous le				
	(1)	(a) and (b)	(2)	(b) and (c)	(3)	(c) and (d)	(4)	(a) and (b)
7	(1)	(a) and (b)	(2).	(b) and (c)	(3)	(c) and (d)	(4)	(a) and (b)

11 NOI Α **52.** Which of the following are the features of a cardioselective β (beta) blocker? Does not cause dyslipidaemia (a) (b) Less liable to impair exercise capacity Safer in diabetics (as compared to non - selective β blocker). (c) (d) Suppresses essential tremor. (1)(a), (b), (c) and (d) (2)(a), (b) and (c) (a), (c) and (d) (3)(b), (c) and (d) (4)In a patient suffering from liver cirrhosis, the following effects on drug action may occur. **53.** (a) Bioavailability of drugs undergoing high first pass metabolism. (b) Protein binding of acidic drugs may decrease. Dose of drugs getting metabolised by hepatic microsomal enzymes has to be reduced. (c) Dose of drugs excreted in an unchanged form has to be reduced. (d) (1)(a), (b) and (c) (2)(b) and (c) (a) and (d) (3)(c) and (d) (4)Which of the following drugs is known to cause Raye's Syndrome? **54**. Phenacetin (2)Sulindac (3) Dicofenac (4)Aspirin (1)What does Edetate Calcium Disodium effectively treat? **55.** Mercury poisoning (a) Lead poisoning (b) (d) Artherosclerotic plaques (c) Arsenic poisoning (d) (1) (a) (2) (a) and •(d) (3) (b) and (c) (4)Which of the following insulin preparations of bovine origin is short acting? Insulin - Zinc suspension amorphus (semi - lente) (1)(2) Insulin - Zinc suspension (lente) (3)Insulin - Zinc suspension crystalline (ultra-lente) (4)Isophane

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57. Match the given antifungal drugs with their mechanism of action :

Column A (drugs)

- (a) Amphotericin B
- (b) Fluconazole
- (c) Flucytosine
- (d) Terbinafine
 - Teromanne
 - (a) (b) (c)
- (1) (i) (iii) (iv)
- (2) (ii) (i) (iii) (iv)
- (3) (ii) (i) (iv) (iii)
- (4) (iv) (ii) (i) (iii)

Column B (Mechanism)

- (i) Inhibits eryosterol synthesis
- (ii) Alters permeability of cell membrane
- (iii) Inhibits DNA and RNA synthesis
- (iv) Accumulation of sterol squalene

58. Which substance is antagonized by Naloxone?

(d)

- (1) Propranolol
- (2) Labetalol
- (3) Opioid receptor (4)
- Salbutamol

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)

(3) (a), (c) and (d)

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

61. What is the commonest cause of malaria in the world?

- (1) P. Vivex
- (2) P. Ovale
- (3) P. Falciparum (4)
 - (4) P. Malariae

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62.	Complete the sentence : Tyndal developed a method for control of microorganisms called as Tyndallization in												
	whi		metn	od for conti	or or	micro	oorganisms calle	ed as 1	yndallization in				
	(1)	Intermittent ste	rilizat	ion is done	(2)	Boil	ing is done						
	(3)	Autocleving is	done		(4)	Pas	teurization is do	ne					
63.	The	Epsilometer test	is em _l	oloyed to :									
	(a)	find severity of	infec	tion.									
	(b)	determine the	efficac	y of antibiot	tic tre	atmer	nt.						
	(c)	find the titre of	the a	ntibodies.									
	(d)	determine the	minim	um inhibito	ry coi	ncenti	ation of an anti	biotic.					
	(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	by:						
	(1)	Borrelia	, ,		(2)		onema						
	(3)	Clostradium w	elchii		(4)		nfluenzae						
66.	Gen	etic mechanism c	of bact	erial drug re	esistar	nce in	cludes :						
	(a)						lls per generatio	n.					
	(b)		betwe						s can produce a				
	(c)	A plasmid carr		ene introdu	ced in	to ce	ll population usu	ıally ir	nfect every other				
	(1)	cell.	(2)	(h) d (-)		(2)	(-) 1 (-)	(4)	(-) (b) 1 (c)				
	(1)	(a)	(2)	(b) and (a)		(3)	(a) and (c)	(4)	(a), (b) and (c)				
67.	Dev	elopment of the c	oncep	ot of aseptic	techni	ique v	was devised by :						
	(1)	Louis Pasteur	(2)	Joseph Lis		(3)	Robert Koch	(4)	Paul Ehrlich				
68.	Scin	tillation counter i	S 11500	for which t	tests :								
73.	(a)	ELISA	(b)	RIA		(c)	CIE	(d)	H1N1				
7	(1)	only (a)	(2)	only (b)		(3)	both (c), (d)	(4)	only (c)				
													

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69.	One	of the following	ng is not	an enzyme	used	in EL	ISA:		
	(1)	β - galactosic	lase		(2)	gluc	cose oxidase		
	(3)	alkaline phos	sphatase		(4)	coas	gulase		
70.				-		etabol	ic process invol	ving the	following steps.
		ange them in th	neir chro						
	(a)	Cell division		(b)			enesis		
	(c)	Differentiation		(d)	Exp	ansio	n		
		ose the correct	-		(2)		/		
	(1)	(a), (b), (c), (d			(2)	(a),	(c), (b), (d)		
	(3)	(b), (c), (d), (a	a)		(4)	(a),	(d), (c), (b)		
71.	Whi	ch cell is invol	ved in th	ne specific ii	mmun	ie resp			
	(1)	Monocytes	(2)	Lymphoc	ytes	(3)	Endocytes	(4)	Nucleocytes
72.	Agg	ressins are not	hing but			1			
	(1)	Group of che			esemi	oling l	normones		
	(2)	Substances th							
	(3)						oduced by certa	ain nath	ngen
	(4)	Substance that				-	-	in pain	ogen.
	(-)	Substance in	at macti	The tries			·)·		
73.	Wha	at is the temper	rature -	pressure co	mbina	ition f	or an autoclave	?	
	(1)	100 degrees o	and 4 p	osi	(2)	121	degrees c and	15 psi	
	(3)	131 degrees	and 9 p	osi	(4)	115	degrees c and 3	3 psi	
74.	The	primary effect	of ultra	- violet rad	iation	s is or	n microbial :		
	(1)	carbohydrate	es		(2)	enz	ymes		
	(3)	nucleic acids			(4)	cell	walls		
M	1.1								
				_					
75.		nary tract infec	tion is m	nost often ca	aused	by:		,	

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76. The penicillin family of antibiotics is used primarily against:

(1) viruses

- (2) fungi
- (3) gram negative bacteria
- (4) gram positive bacteria

77. Cocci arranged in packet of eight are:

- (1) Staphylococci (2)
 - (2) Streptococci
- (3) Pneumococci
- 4) Gaffkyi

78. Streptococcus Pneumoniae may cause:

(1) gonorrhea

(2) otitis media

(3) endocarditis

(4) wound infection

79. Cephalosporins are produced by:

- (1) Unicellular bacteria
- (2) Filamentous bacteria

(3) Molds

(4) Algae

80. A fever inducing substance is known as:

- (1) exotoxin
- (2) endotoxin
- (3) pyrogens
- (4) enterotoxin

81. Temperature in Hot - air oven for sterilization may be:

- (a) 210°C for $\frac{1}{2}$ hr
- (b) 180°C for 1 hr
- (c) 160° C for $1\frac{1}{2}$ h
- (1) Only (a) is true

(2) Only (b) is true

(3) Only (c) is true

(4) (a), (b) and (c) are true

82. In India, viral hepatatis is most commonly caused by :

(1) Hepatatis A

- (2) Hepatatis B
- (3) Non A Non B Hepatatis
- (4) Delta Hepatatis

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

84. Disinfection means:

- (1) When an article is freed of all microorganisms
- (2) Destruction of all pathogenic microorganisms
- (3) Prevention of infection
- (4) Inhibiting growth of bacteria
- 85. Hydrophobia is caused by rabies virus, its incubation period seems to be related to:
 - (1) Vaccination
 - (2) Distance between site of bite and CNS (Central Nervous System)
 - (3) Types of vector
 - (4) Infecting dose of virus
- 86. Widal test is carried out for the diagnosis of Typhoid, what is true of the widal reaction?
 - (1) Antibodies to 'H' Ag appear first and persist.
 - (2) Antibodies to 'O' Ag appear first and persist.
 - (3) Antibodies to 'H & O'Ag appear simultaneously.
 - (4) Antibodies to 'H & O' Ag persist.
- 87. Consider the following statements:
 - (a) 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:

(1) (a) is true

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

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- 88. The BOD of effluent is affected by :
 - (a) The organic matter content.
 - (b) The oxidizable inorganic matter content.
 - (c) pH of the effluent.
 - (d) Coloured substances.
 - (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) C. diphtheriae
- (iii) Opportunistic infection
- (d) P. Vulgaris
- (iv) Wound infection(d)
- (a) (b) (c)
- (1) (iii) (ii) (iv)
- (2) (iv) (iii) (ii) (i)
- (3) (i) (iv) (iii) (ii)
- (4) (ii) (i) (iv) (iii
- (4) (ii) (i) (iv) (iii)
- 90. What is laboratory diagnosis of enteric fever based on?
 - (a) Blood culture
- (b) Urine culture
- (c) Widal test
- (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
- (iii) DNA Ligases
- (c) Relieves torsional strain
- (iv) Topoisomerases
- (d) Initiates synthesis of RNA primers

Answer options :

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

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(ii)

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92. Match the following:

Unsuitable characteristics

for sustained release

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

- Drug
- (i) Furosemide

Digitoxin

- (b) Absorbed and excreted rapidly
- (c) No effective absorption in lower intestine
- (iii) Diazepam

- (d) Low therapeutic index
 - (a) (b) (c) (d)
- (1) (i) (iii) (ii) (iv)
- (2)(iii) (i) (iv) (ii)
- (3)(i) (iv) (iii) (ii)
- (4)(iv) (i) (iii) (ii)

(iv) Riboflavin

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

(a) and (d) only (2)

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

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

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

furcellaran (c)

(d) none of the above

Options:

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

NOI A 19 95. Consider the following: Chlorhexidine and salts, phenol (a) (b) Hexamethylene tetramine (c) Benzalkonium chloride Phenyl mercuric acetate (d) Which of the above is/are used as broad spectrum preservatives in emulsion? Only (a) (2) Only (c) (1)(3)(a), (c) and (d) All of the above (4)96. Commercial levels of phenylalanine can be obtained from: C. albicans (a) A. niger (b) B. subtilis (c) E. coli Options: (d) only (1) (a) and (d) (2) (b) and (c) (3)(c) only 97. The Michaelis - Neuton equation relates the velocity of a reaction catalysed by an enzyme with: (1)Concentration of product formed (2) Concentration of substrate required (3) Collision frequency Energy of activation (4)When internal stresses in the film exceeds, the tensile strength of the film results in : 98. (a) Blistering (b) Cracking (c) Bloom (d) Bridging and Filling (1) Only (c) (2) Only (b) (3) (b) and (c) (4)(a), (b), (c) Gibberellin, a secondary metabolite of microbes, is: an antibiotic (b) an anti-ulcer agent (c) a plant growth regulator (d) an immunosuppressant **Options:** (d) only (a) and (d) (2) (b) only (3) (c) only (4)कच्चा कामासाठी जागा /SPACE FOR ROUGH WORK

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100. Which of the following molecule/s is/are not steroidal in nature?

- (a) dafachromic acid
- (b) aramchol

(c) sterchamol

(d) brassinolide

Options:

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

101.

(I)

(II)

Compounds (I) and (II) are:

- (1) positional isomers
- (2) chain isomers
- (3) functional isomers
- (4) none of the above

102. Citric acid is the primary metabolite obtained from:

- (1) Saccharomyces cerevisiae
- (2) Aspergillus niger
- (3) Corynebacterium glutamicum
- (4) Xanthamonas species

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?

(1) Only (a)

(2) Only (b)

(3) Both (a) and (b)

(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 :

- (a) processing of primary transcript to m RNA.
- (b) translation of m RNA.
- (c) protection of m RNA.
- (d) synthesis of DNA.

Answer options:

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

(3) (a) alone

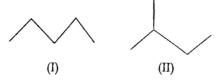
(4) (b) and (d) only

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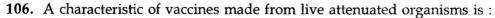
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105.



Compounds (I) and (II) are:

- positional isomers (1)
- (2)chain isomers
- (3)functional isomers
- (4)geometric isomers



- (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:

- Polyalkoxyethers (a)
- (i) Lauryl alcohol
- (b) Polyalkoxyesters
- (ii) Polyoxyethylene sorbitan acid esters
- Ammonium phosphate (c)
- Polyoxyethylene polyoxypropylene block polymer (iii)
- (d) Fatty alcohols
- Lecithin (iv)
- (b) (a) (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)**

(2) Aquateric and Eudragit

HPMCP 50 (3)

(4)Aquateric, Eudragit and HP-555

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22 **NOI** A 110. A particular class of emulsifier is selected primarily on the basis of : Route of administration Required shelf life (b) (a) (c) Type of emulsion (d) **Emulsifier cost** Options: (1)only (a) (2)(a) and (b) none of the above (a), (c) and (d) (4)(3)111. Isomers formed by the inter-conversion, based only on the rotations about single bonds are called as: conformational isomers (b) conformers (a) (d) stereomers (c) rotamers Options: (a) and (b) (1)(2)(b) and (c) (3)(c) only (4)(a), (b), (c) and (d) 112. Excess glucose is stored in the body by the process of: (1)glycogenolysis (2)glycogenesis (4)gluconeogenesis (3)lipolysis 113. Test required for treated soda lime glass i.e Type II is/are: Water attack at 121° test (a) Light transmission (b) Multiple internal reflectance (d) Water vapour permeation Which of the statements given above is/are correct? Only (b) (2) Both (a) and (b)

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(a), (b) and (c)

(3)

(4)

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

23 **NOI** A 114. Match the following: **Emulsifier** HLB value Sodium oleate 2.1 (a) (i) Sorbitan monolaurate 7.1 (b) (ii) Sucrose dioleate 8.6 (c) (iii) (d) Sorbitan tristearate (iv) 18.0 (a) (b) (c) (d) (1)(i) (ii) (iii) (iv) (2) (iv) (ii) (iii) (i) (3)(iii) (iv) (i) (ii) (4)(iv) (iii) (ii) (i) **115.** The precursor for biosynthesis of steroids in the body is: (1)acetyl - CoA glycogen (2)amino acids fatty acids (3)(4)**116.** A chemostat is nothing but : a nutrient - limited self-balancing culture system (1)(2) a statistical software for chemical systems (3) a chemical used as a hemostat none of the above (4)117. Metabolism of amino acids involves all of the following except: (1)transamination (2)deamination (3)beta oxidation **(4)** citric acid cycle 118. A period of adaptation of microbes is also referred to as: (1) growth phase lag phase (3) log phåse (4) stationary phase (2) 119. Agents that cut DNA at specific sequences in Recombinant DNA Technology are called: (1)Exonucleases (2)Phages (3)**Plasmids** (4)Restriction enzymes कच्या कामासाठी जागा /SPACE FOR ROUGH WORK

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120.	Whi	ch 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
101	D	
121.		erse phase liquid-liquid chromatography means
	(1)	the stationary phase is polar compound and the mobile phase is a non-polar solvent
	(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 solvent
	(4)	pre-derivatisation is done to less polar compound
122.	Whi	ch 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
	Ans	wer 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.	Scan	ning densitometer is a part of :
	(1)	high pressure liquid chromatograph
	(2)	high pressure thin layer chromatograph
	(3)	gas liquid chromatograph
	(4)	gas solid chromatograph
	Y_	
124.	Whi	ich of the following is most affected by the temperature changes in flame
,	phot	tometry ?
	(1)	absorption spectrometry (2) atomic spectrometry
	(3)	emission spectrometry (4) molecular spectrometry

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- 125. "Figures of merit" used to evaluate the performance characteristics of an analytical technique include :
 - (a) Linearity range
 - (b) Coefficient of selectivity
 - (c) Coefficient of variation
 - (d) Systematic error

Answer 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.** Squalane, 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. If a drug is manufactured under a name which belongs to another drug then it is known as ______.
 - (1) Spurious
- 2) Misbranded
- (3) Adulterated
- (4) Genuine

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

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Α

129. Processes occurring during atomization in Atomic Absorption Spectrometry are in the order:

(a) Desolvation

(b) Ionization

(c) Nebulization

(d) Volatilization

(e) Dissociation

Answer 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. Anastomosis are typically performed on:

(a) blood vessels

(b) gastro-intestinal tract

(c) urinary tract

(d) none of the above

Options:

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

131. The advantages of Fourier Transform IR over Dispersive IR include the following, except:

- (1) Sample is exposed to the entire IR beam at a time
- (2) Only radiation of a narrow frequency falls on the detector at a time
- (3) Use of laser provides high frequency accuracy
- (4) Emission of IR radiation by the sample is not detected

132. Which of the following detector/s used in Gas chromatography are mass flow sensitive?

- (1) Thermal conductivity
- (2) Flame ionization
- (3) Photo ionization
- (4) Electron capture

133. Drug shall be deemed to be misbranded, if it is:

- (a) not labelled in prescribed manner
- (b) colored, coated or polished, damage is concealed
- (c) made to appear better or greater therapeutic value than it really is

Which of the statement/s given above is/are correct?

(1) (a) only

(2) (a) and (b) only

(3) (b) and (c) only

(4) (a), (b) and (c)

A					27						NOI		
134.	High	n risk of infect	ion and s	scarring ar	e main	ly disa	advan	tages of :					
	(1)	Sutures	(2)	Staples		(3)	Sten	strips	(4)	Tissue-gl	ues		
135.	Whi	ch of the follo	wing con	nmittees ac	lvises	the Di	ΓAB a	nd vario	ıs gover	nments ?			
	(a)	D.C.C	(b)	D.E.C		(c)	C.C.	U.M	(d)	P.C.I			
	(1)	only (a)	(2)	only (c)		(3)	(a) a	ind (b)	(4)	only (d)			
136.	Lary	rngoscope is u	sed to ex	amine :									
	(1)	lungs	(2)	vocal cor	ds	(3)	glott	ris	(4)	kidneys			
137.	As _j	per the limit to	est for he	avy metals	s I.P., r	nethod	d D in	volves th	e use of				
	(1)	ignition at 50	00 to 600	0	(2)	thio	acetan	nide reag	gent				
	(3)	hydrogen su	lphide		(4)	sodi	um su	lphide					
138.	Duti	es of governm	ent anal	yst are :		7	J						
	(a)	To analyse o			f drug	s and	cosme	tics					
	(b) To investigate any complaint in writing made to him												
	` '	ch of the abov											
	(1)	Only (a) is tr			(2)	Only	y (b) is	s true					
	(3)	Both (a) and	(b) are to	rue	(4)	Neit	her (a) nor (b)	is true				
139.	The	efficiency of a	column	in chroma	tograp	hy is	define	d in tern	ns of				
	(1)	shape of the	peaks ob	tained	(2)	rete	ntion	factor					
	(3)	variance per	unit leng	gth	(4)	selec	ctivity	factor					
+								-					
140.		schedule in D analytical reco				-	ticular	s to be s	hown in	manufact	uring		
		ions :											
	(1)	Schedule V	,		(2)	Sche	dule	X					
	(3)	Schedule U		*	(4)		dule	W					

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A

- 141. Consider the following with respect to UV spectroscopy:
 - (a) σ to σ^* transitions occur in compounds having no lone pair of electrons
 - (b) n to σ^* transitions occur in saturated compounds with no lone pair of electrons
 - (c) aliphatic alcohols are used when measurements are made in the 200 to 260 nm range
 - (d) Saturated hydrocarbons are used when measurements are made in the 200 to 260 nm range

Answer options:

- (1) Only (a) and (b) are correct
- (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:

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

(2) (b) and (c)

(3) (a) and (d)

- (4) (a), (b) and (d)
- 143. Arsine gas in the limit test for arsenic is produced by the reaction between:
 - (1) H₃AsO₃ and H₂SnO₃
- (2) H_3AsO_4 and H_2SnO_2

(3) H_3AsO_3 and H_2

- (4) H_3AsO_4 and H_2
- 144. Which of the following statements is/are true?
 - (a) Drug inspector has no financial interest in the import, manufacture or sale of drugs.
 - (b) Drug inspector is a public servant.
 - (c) Drug inspector should have qualifications as per section 20 of the Act.
 - (1) Only (a)

(2) Only (b)

(3) (a) and (b)

(4) All of the above

A						29					NOI			
145.	A dı	rug samp	le taken	by dr	ug inspecto	or for a	nalys	is is sent to	:					
	(a)	Drug C	Controlle	r		(b)	State	e Drug Lab	orator	y				
	(c)	Excise	Commis	sioner		(d)		ernment A		,				
	(1)	(a) and	(b)	(2)	only (b)		(3)	only (d)	·	(4)	(a), (b) and (d)			
146.	Dith	ione, use	ed in the	limit t	est of lead,	is che	mical	ly :						
	(1)	diphen	ylthioca	rbazor	ne	(2)	diph	enylthioaz	one					
	(3)	dimeth	ylthioca	rbazor	ne	(4)	-	ethylthioaz						
 147.	A je	t separat	or in LC	-MS, v	works on tl	he prii	nciple	of			U			
	(1)		i action			•	•							
	(2)	Solubili	ity of a s	eparat	ed fraction	in an	elasto	mer						
	(3)		•	-	le phase in				1					
	(4)	Permea	bility of	a sepa	arated fract	tion th	rough	an elaston	ner					
148.	Cons	sider the	followir	ng:		_								
	(a)		ug Conti	U	of India									
	(b)													
	(c)				acy Counci									
	(d)	The Dia	rector Ge	eneral	of Health S	Service	S	Y						
	Whi	ch one of	f the abo	ve is t	he chairma	n of tl	ne Dri	ags Technic	al Ad	visory	Board ?			
	(1)	(a) only	7	(2)	(c) only		(3)	(d) only	(4)	Non	e of the above			
149.	Mate	ch the fo	llowing											
	Sche	edule		Facto	ory Premis	es for								
	(a)	M		(i)	manufacti	ure of	cosm	etics						
	(b)	MII		(ii)	manufacti	ure of	drugs	3						
	(c)	МШ		(iii)	manufacti	ure of	home	opathic dr	ugs					
	(d)	ΜI		(iv)	manufacti	ure of	medio	cal devices						
		(a) (t	(c)	(d)										
	(1)	(i) (i	i) (iv)	(iii)										
	(2)	(ii) (i)		(iii)										
	(3)	(ii) (i) (iii)	(iv)										
	(4)	(i) (i	i) (iii)	(iv)										

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NOI				30					A
150.	Hem	nostat is used to :							
	(1)	degrade heme							
	(2)	control bleeding	g duri	ng surgery					
	(3)	stop degradatio							
	(4)	none of the abo	ove						
151.	disc	usses the vulner	ability	rican Heart Asso of people to hea oned statements a	rt disease	in relation	to thei	r bloo	
	(a)	People with blo	ood gr	oup AB are least	vulnerable.				
	(b)	People with typ	oe O b	lood group are le	ast vulnera	ble.			
	(c)	The order of de	ecreasi	ng vulnerability i	s AB, B, A,	O			
	(d)	There is no rela	ation fo	ound between blo	ood groupin	ng and hear	t disea	ıse.	
	(1)	Only (b) is true		(2)	(b) and (c	are true			
	(3)	Only (d) is true	:	(4)	None of t	he above			
152.	Pern	nitted daily expo	sure f	or class II solven	s is	·			
	(1)	0.1 mg / day		(2)	1 mg / da	ay			
	(3)	10 mg / day		(4)	0.01 mg/	day day		٠.	
153.			_	eric AtoS (Piogli by FDA to which	-		tablet	to tre	eat type 1
	(a)	Mylon pharma	ceutic	als					
	(b)	Cadila pharma	ceutic	als					
	(c)	Pfizer pharmac	ceutica	ıls					
	(d)	Orthobiotech P	vt. Lto	i					
	(1)	(a) and (b)	(2)	(b) and (c)	(3) (a)	only	(4)	(d) c	only
154.		of the publicatio an Pharmaceutic		ntioned below or de :	ne or more	are not con	sidered	d to be	e a part of
1	(a)	Drug Today		(b)	Pharma I	Pulse			
	(c)	MIMS		(d)	CIMS				
	Opt	ions:							
		(c) and (d)		(a), (c), and (d)	(3)	only (b)		(4)	

A

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NOI

155. Which of the following sections of population are beneficiaries of the ICDS programme?

- (a) Women above 60 years
- (b) Children below 6 years
- (c) Pregnant and lactating women
- (d) Women in the age group 15-44 years
- (1) (a), (c) and (d)
- (2) (b), (c) and (d)
- (3) (a), (b), (c) and (d)
- (4) (a), (b) and (d)



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

(4)

- (1) (a) and (b)
- (2) (a) and (c)
- (3) (a), (b), (c)
- (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.
- (b) ganja, that is, flowering or fruiting tops of the cannabis plant.
- (c) phenanthrene alkaloids, such as morphine and codeine.
- (d) charas, that is resin obtained from cannabis plant.
- (1) (a), (c) and (d)

(2) (a) and (d) only

(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.
- (c) Reporting of all relevant results of registered clinical trials.
- (d) Advise regarding recruitment of subjects for clinical trials.
- (1) (a) and (b) only

(2) (c) and (d) only

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

(4) (b) and (c) only

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NO	I	_ 32				A
159.	The	Central Drugs Authority has following	functi	onal divisions :		
	(a)	Regulatory and Enforcement	9			
	(b)	New Drugs and Clinical Trials				
	(c)	Issue of licences for retail sale of drugs	5			
	(d)	Imports of Drugs and Cosmetics				
	(1)	(a), (b) and (d) (2)	(b),	(c) and (d)		
	(3)	(a), (b), (c) and (d) (4)	(a) a	and (c) only		
160.	The	NPPA has issued clarification in July 201	2, in th	e press that price	e of one	of the following
	drug	gs has not been raised - which drug is it	?			
	(1)	Norfloxacin (2)	Cefo	otaxime		
	(3)	Insulin (4)	Vita	min C		
161.	The	Systemic Antidote for Acetaminophen	is		·	
	(1)	Atropine (2)		vated charcoal		
	(3)	N-acetyl cysteine (4)	EDT	ГА		
			—			
162.		ich of the two modules have been re	ecently	y added in goo	d pha	rmacovigilance
	•	ctices ?				
	(a)	Module III pharmacovigilance monito	oring			
	(b)	Module X Additional monitoring				
	(c)	Module V Risk management system		C:1		
	(d)	Module II pharmacovigilance system			(4)	(-) 1 (1)
	(1)	(a) and (b) (2) (b) and (c)	(3)	(a) and (d)	(4)	(c) and (d)
162	C	idea the Collegeine statements				
163.		sider the following statements:				
	(a)	Chronic toxicity may not be of import			·	
	(b)	An antidote which is non-toxic may be			-	
K	(c)	A toxic antidote may be used even if		•		incertain.
		An antidote may mobilize the toxic su	instant	le mom ussue st	ores.	
	(d)	ich of the above statements are true?				
	Whi	ich of the above statements are true?	(a) a	and (c) only		
		ich of the above statements are true? (a) and (b) only (2) (a), (b) and (c) (4)		and (c) only (b) and (d)		

A					33				NOI
164.	Com	pulsory licence h	as be	en granted	for Ar	nti car	ncer drug by Ind	ian Patent C	Office to :
	(1)	Khandelwal Lal	0		(2)	Nato	co Vs Bayer		
	(3)	Panacea biotech	L		(4)	Sano	doz Vs GSk		
165.	The	requirement and	guide	elines for co	ntract	resea	rch comes unde	r which sche	edule ?
	(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	or pro	ophylaxis of male	aria ?	
	(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.		el chemical entity e research initiate							
	(a)	Sanofi pharma			(b)	Hika	al Ltd.		
	(c)	Glenmark phari	maceı	iticals	(d)	Jubil	liant pharma		
	Opti	ons:							
	(1)	(a) and (b)	(2)	(a) and (c)		(3)	(a), (b) and (c)	(4)	Only (c)
168.		ording to DPCO,							
	(a)	Formulation con			_				
	(b)	Formulation cor another not spec				cified	in first schedul	e in combina	ation with
	(c)	Any single drug generic name.	g forn	nulation bas	sed on	drug	specified in firs	st schedule s	old under
A	(d)	Formulation cor	ntainir	ng d r ugs no	t spec	ified i	in first schedule.		
	(1)	(c) only			(2)	(a),	(b), (c) and (d)		

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P.T.O.

(4) (a) and (b) only

NOI 34 A 169. Inaugural address at "Two day Polio Summit, 2012" organised by Government of India and Rotary International at Delhi was given by one of the following personalities. Dr. Manmohan Singh Prime Minister of India (1)(2) Mr. Kalyan Banerjee President of Rotary International (3)Mr. Amitabh Bacchan (4)Ghulam Nabi Azad, Union Health Minister 170. Recently USFDA has approved a new drug for diabetic Macular edema named: Ranibizumab inj Thiabendazol (1)(2)LAMA/LABA (3)(4)Prasugrel 171. ISO 14000 is primarily concerned with one or more than one of events mentioned below: (1) Automotive belts Chemical safety (2)Quality management (3) (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 Obesity (d) HIV-AIDS (c) (a) and (b) both (a), (b) and (d) (1)(2)(3)(c) only (4)(d) only 173. India's First Indigenously developed new medicine by Ranbaxy is Combination of Arterolane maleate + Piperaquine PO (1)(2) Chloroquine + Sulfadoxine Pyrimethamine

- (3) Amodiquine + Sulfadoxine Pyrimethamine
- (4) Artemethur

174. Recently, which of the following anti-epileptic drugs has been reported to reverse memory loss due to Alzheimer's disease in mouse model?

(1) Levetiracetam

(2) Phenobarbitone

(3) Ethosuximide

(4) Carbamazepine

A	. j 6				35				N	OI
175.	75. Which Antidiabetic drug has been recently banned in India for human use?									
	(1)	Rosiglitazone	1		(2)	Chlo	rhexidine			
	(3)	Nateglinide			(4)	Acet	ohexamine	,	•	525
176.	Wha	t will be the nex	t term	in the given	sequ	ence ?	Find it fro	m given a	lternatives.	
	ADE	E, CFG, EHI, GJI	ζ, ?							
	(1)	IML	(2)	ILM		(3)	MIL	(4)	LMI	
177.		' means ' ÷ ', 'Q' e of 18 Q 12 P 4			ıns '+	' and	'T' means '	–′. Then	what will, be	the
	(1)	53	(2)	56		(3)	59	(4)	65	
178.	As 'l	RT' is related to	'VX' aı	nd 'BD' is re	elated	to 'FF	· KM′ wil	l be relate	d to	<u></u> .
	(1)	NP .	(2)	OR		(3)	OQ .	. (4)	PR	
179.	First word bears some definite relationship with the second. From the given alternatives, select the suitable word for serial number four, which bears the same relation with the third word, that the second has with the first.									
	Book : Author : : Statue : ?									
	(1)	Painter	(2)	Binder		(3)	Sculptor	(4)	Calligraphis	st
180.		code language ' '245' means 'Wh							n Colour Flow	er′
	(1)	2	(2)	4	,	(3)	5	(4)	6	
181.	acco	re are three nur rding to some for given alternative	rmula.						0	
	1/9/5	$\frac{3}{6}$ $\frac{2\sqrt{12}}{6}$ $\frac{3\sqrt{2}}{5}$	1							
	(1)	8	(2)	12	v	(3)	9	(4)	7	

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A

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







5 (1)



(2)6 (3) 8

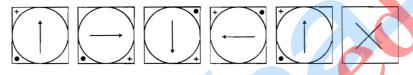
7 (4)

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

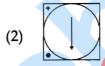
SNUREMB (2) SNRUBME (3) SNRUEMB (4)

SNRUMEB

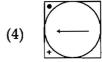
184. Which of the figures in given alternatives belongs to the space marked X?











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

BBCBCDBCDEBCDEFBCDEFGBCDEF ?

- (1)
- G
- H (3)
- D (4)

186. Which letter should go in the blank space?



- (1)
- (2)E
- (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?

- #4\$5 (1)
- (2)#6\$5
- (3)\$4#5
- (4)\$4#6

A

37

NOI

188. Which of the following figures will represent the relationship between ball, football and sphere?

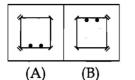


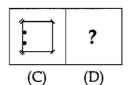


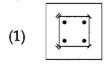


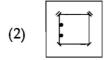
(4)	((0))
(4)	

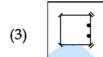
189. There is a definite relationship between figures A and B. Establish the similar relationship between figures C and D, by choosing a suitable figure from given alternatives.

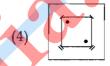












190. Some boys are standing in a row, facing towards North. Ajay is 12th from left. If he moves four places to right, he appears at the place, 18th from right'. What is the total number of boys in the row?

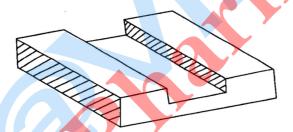
(1) 32

(2) 33

(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:

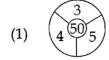
- 5, 10, 17, 26, 37, _____
- (1) 50, 65
- (2) 45, 65
- (3) 50, 60
- (4) 50, 75

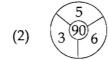
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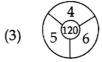
38

 \mathbf{A}

193. The numbers in three figures follow some rule, which is not followed by the numbers in 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)



A

39

NOI

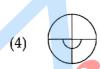
198. The given figures follow definite sequence. Fill in the blank space with the suitable figure from given alternatives which should come next.











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'?

Column			Colu	ımn I					
(Groups		(Codes)							
A N	P			5	2	4			
N M	C			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

ΕV (1)

UE (2)

V E

ΕU

- o 0 o -

कच्चा कामासाठी जागा /SPACE FOR ROUGH WORK

40

A

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 प्रश्नपुस्तिकंतील 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.