

GPAT - 2011

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GPAT QUESTIONS

1.	A glycoalkaloid						
	[P] Contains sulphur	in addition to nitrogen	in it	s molecule			
	[Q] Is glycosidic in na	iture.					
	[R] Can be hydrolysed	d to an alkaloid.					
	[S] Always contains e	ndocyclic nitrogen in i	ts m	olecule.			
	(a) P&R	(b) Q&S	(c)	Q&R	(d)	P&Q	
2.	Which of the following	ng statements are true	for g	ginseng root			
	[P] It is among the m	ost traded plant mater	ial o	f Brazil			
	[Q] It is obtained from	m <i>Panax ginseng</i> and <i>P</i>	anax	quinquefolium			
	[R] It is obtained from	n young plants of six r	nont	hs to one year age	9		
	[S] It contains derivat	tives of protopanaxad	ol.	ENTER			
	(a) P&Q	(b) R&S	(c)	Q&R	(d)	Q&S	
3.	Which of the following	ng drugs is a triterpend	oid c	ontaining root?			
	(a) Valerian	(b) Brahmi	(c)	Satavari	(d)	Adusa	
4.	Which of the following	ng alkaloids is derived	from	tyrosine			
	(a) Quinine	(b) Morphine	(c)	Atropine	(d)	Ephedrine	
5.	The following options	s carry the name of the	e pla	nt, part used and i	ts fa	mily. Find awrong combination.	
	(a) Aegle marmelos, t	fruit & Rutaceae					
	(b) Conium maculatum, fruit & Umbelliferae						
	(c) Glycyrrhiza glabr	ca, root and stolon & L	egun	ninosae			
	(d) Strophanthus gro	atus, seed & Scrophula	riace	eae			
6.	Anomocytic stomata,	trichomes with collap	sed	cell and absence	of ca	alcium oxalate crystals are some o	
	themicroscopic featur	res of which plant					
	(a) Digitalis	(b) Hyoscyamus	(c)	Mentha	(d)	Senna	

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7.	Each of the following options lists the name	of the drug, its class, pharmacologicalaction and plan
	source.Choose an option showing a wrong com	nbination.
	(a) Asafoetida, oleo-gum-resin, anti-flatulence, F	Ferula foetida
	(b) Benzoin, balsam, antiseptic, Styrax benzoin	
	(c) Myrrh, gum-resin, antiseptic, Commiphora v	wightii
	(d) Papaine, enzyme, proteolytic, Carica papaya	а
8.	Quinoline alkaloids are biosynthesized via whic	ch one of the following pathways
	(a) Shikimic acid –tyrosine	(b) Shikimic acid -tryptophan
	(c) Shikimic acid -cathinone	(d) Shikimic acid -phenylalanine
9.	Which of the following ergot alkaloids is water	soluble and shows blue fluorescence
	(a) Ergosine	(b) Ergotamine
	(c) Ergocristme	(d) Ergometrine
10.	Khellin is an active constituent of which one of t	the following plants
	(a) Prunus serona	(b) Tribulus terrestis
	(c) Ammi visnaga	(d) Vanilla plamfolia
11.	Goldbeater's skin test is used to detect the pres	ence of which one of the following classes of compounds
	(a) Tannins	(b) Steroids
	(c) Glycerides	(d) Resins
12.	Which one of the following compounds is useful	ul for the stimulation of cell division and release of latera
	bud dormancy?	
	(a) zeatin	(b) 2, 4-Dichlorophenoxyacetic acid
	(c) Indole acetic acid	(d) Picloram
13.	Phenylethylisoquinoline is the precursor of whi	ich of the following alkaloids
	(a) Colchicine	(b) Papaverine
	(c) Emetine	(d) Cephaline
14.	A powdered drug has the following microscopic of	characters: Anther cells, parenchyma, pollen grains, phloem
	fibers, volatile oil cells and stone cells. The power	der is obtained from which of the followings?
	(a) Clove bud powder	(b) Clove bud powder with stalk
	(c) Mother Cove	(d) None of the above
15.	Arrange the following fatty acids in decreasing of	order of their unsaturation (highest to lowest)
	[P] Stearic [Q] Oleic acid	[R] Linolenic acid [S] Linoleic acid
	(a) P>Q>R>S	(b) S>R>P>Q
	(c) R>S>Q>P	(d) Q>P>R>S



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16. Determine the correctness or otherwise of the following Assertion [a] and the Reason [r]:

Assertion (a): Tannins are polyphenolic substances occurring in plant cell sap. Hydrolysable and condensed tannins are differentiated by match stick test.

Reason (r): The condensed tannins are resistant to acid hydrolysis therefore stain the lignin present in matchstick.

- (a) Both (a) and (r) are true, and (r) is a correct reason for (a)
- (b) Both (a) and (r) are true, but (r) is NOT the correct reason for (a)
- (c) (a) is true but (r) is NOT the correct reason for (a)
- (d) Both (a) and (r) are false
- 17. Determine the correctness or otherwise of the following Assertion [a] and the Reason [r]:

Assertion (a):Castor oil is soluble in alcohol and is used as purgative.

Reason (r): The oil contains ricinoleic acid having a hydroxyl group at C-12 position which is responsible for its solubility in alcohol and its purgative action.

- (a) Both (a) and (r) are true but (r) is NOT the correct reason for (a)
- (b) (a) is true but (r) is NOT the correct reason for (a)
- (c) Both (a) and (r) are true and (r) is the correct reason for (a)
- (d) Both (a) and (r) are false
- 18. In acetate mevalonate pathway geranyl pyrophosphate leads to formation of monoterpenes, the major constituents of volatile oils.
 - [P] Geranyl pyrophosphate contains two isoprene units
 - [Q] Monoterpenes have 15 carbon atoms
 - [R] The two isoprene units condense in head to tail fashion to give Monoterpenes
 - [S] Isoprene unit has molecular formula of C₅H_o.

which one of the given statements is correct?

- (a) P is true. Q is false, R is true, S is false
- (b) P is false. Q is true, R is true, S is false
- (c) P is true. Q is true, R is fa1se, S is true
- (d) P is true. Q is false, R is true, S is true
- 19. Two genetic types of Cannabis i.e. drug type and Hemp types are cultivated.
 - [P] Drug type cannabis is rich in (-) 9-trans-tetrahydrocannabinol
 - [Q] Hemp type cannabis is rich in cannabidiol
 - [R] Drug type cannabis is rich in cannabidiol
 - [S] Hemp type cannabis contains elongated bast fibres

which one of the given statements is correct?

- (a) P is true, Q is true, R is true, S is true
- (b) P is true, Q is false, R is false, S is true
- (c) P is true, Q is true, R is false. S is true
- (d) P is false, Q is false, R is true, S is false

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20.	Each of the following	ng options lists a phyto	constitue	ent, its phytochem	ical grouping,pharmacological activity
	and corresponding	semisynthetic analog	ue. Find	a MISMATCHING	option
	(a) Podophyllotox	in, lignan, anticancer, e	etoposide		
	(b) Sennoside, ant	hraquinone, laxative, s	inigrin		
	(c) Atropine, alka	loid, anticholinergic, ho	matropi	ne	
	(d) THC, terpenop	henolic, psychoactive,	nabilone	2	
21.	Inhibition/induction	on of which of the follow	ing Cyto	chrome P450 enzy	yme system ismost likely to be involved
	in important drug-	drug interactions			
	(a) CYP3A4	(b) CYP2D6	(c) CYP2C9	(d) CYP1A2
22.	Which of the follow	ving mechanisms is NO	T related	d to platelet aggre	gation inhibitory action
	(a) ADP receptor	antagonism	(b) Glycoprotein	IIb/IIIa receptor antagonism
	(c) Phosphodieste	erase inhibition	(d) Prostacyclin i	nhibition
23.	Choose the correct	statement about the	given fou	r diseases?	
	[P] Cardiomyopatl	ıy	_	Q] Rheumatoid a	
	[R] Myasthenia gra	avis		S] Ulcerative colit	
		oimmune disorders			oimmune disorders
		autoimmune disorders	DIS	EUSSION	autoimmune disorders
24.			\mathbf{C} \mathbf{E}	NIEK	Dipeptidyl Peptidase-4
	(a) Oxytocin	(b) vasopressin	•	c) Incretins	(d) Glucagon
25.	_			-	pe advised not to take Sildenafil. This
	9	tion causes which of th			
	(a) Respiratory fa			b) Severe hypoto	
	(c) Prolongation (_		d) Myocardial is	chemia
26.		ving drugs does NOT in			
a -	(a) Atropine	(b) Ephedrine	•	c) Phentolamine	(d) Cocaine
27.		ving statements is TRU	E for ang	giotensin-II	
	(a) Causes myocy				
		action of sympathetic		system	
		e of myocardial contra			
20		synthesis and release			
28.		ing beta blockers has be	en show	n clinically to redu	ice mortality inpatients of symptomatic
	heart failure		() -		
	(a) Atenolol	(b) Carvedilol	(c) ł	Propranolol	(d) Esmolol

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29.	9. All of the given four drugs cause vasodilatation. Choose the	correct statement about them.
	[P] Bradykinin [Q] Minoxidil [R] Acetykholi	ne [S] Hydralazine
	(a) P & Q cause release of nitric oxide (b) Q & R	do not cause release of nitric oxide
	(c) R & S cause re1ease of nitric oxide (d) P & S	do not cause release of nitric oxide
30.	0. Rhabdomyolysis is the side effect associated with which of	the following classes of drugs
	(a) ACE inhibitors (b) Stating	S
	(c) Calcium channel blockers (d) Sodiu	m channel blockers
31.	1. Blood level monitoring of HbA1c is important in which of the	ne given diseased states
	(a) Hypercholesterolemia (b) Diabe	tes mellitus
	(c) Myocardial infarction (d) Conge	estive heart failure
32.	2. Most of the emergency contraceptives have which one of t	he following active ingredients
	(a) Estradiol (b) Norethindron (c) Misog	prostol (d) Levonorgesterol
33.	3. Which of the following antibiotics produces concentration de	ependent bactericidal action and also possesses
	post-antibiotic effect	
	(a) Ceftazidime (b) Azithromycin (c) Amika	acin (d) Piperacillin
34.	4. Antiretroviral Raltegravir is unique, because of which of its	following actions
	(a) Integrase inhibition (b) CCR5	Co-receptor antagonism
	(c) Fusion inhibition (d) Rever	se transcriptase inhibition
35.	5. What is chemotaxis	
	(a) Toxicity of chemicals (b) Taxon	omy of chemicals
	(c) Inhibition of Inflammation (d) Move	ment of leucocytes in inflammation
36.	6. Which one of the followings is NOT an example of G-protei	n coupled receptor?
	(a) Muscarinic cholinergic receptor (b) Alpha	adrenoceptor
	(c) Nicotinic cholinergic receptor (d) Beta a	adrenoceptor
37.	7. Which of the followings used in the treatment of rheumatoi	d arthritis is NOT a biologic response modifier
	(a) Anakinra (b) Leflunomide (c) Etane	rcept (d) Infliximab
38.	8. Which of the following statements is FALSE for artemisinin	?
	(a) It is a sesquiterpene lactone endoperoxide	
	(b) It is a drug of choice in prophylaxis of malaria	
	(c) It does not cure relapsing malaria	
	(d) It is useful in treatment of cerebral fakiparum malaria	
39.	9. Which of the followings is a noncompetitive inhibitor of th	e enzyme reverse transcriptase in HIV
	(a) Lamivudine (b) Nevirapine (c) Abaca	vir (d) Tenofovir



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40.	Which of the followings	is the most effective mo	onothera	py for raising HD	L cho	olesterol
	(a) Statins (b	o) Niacin	(c) Eze	timibe	(d)	ω-3-Fatty acids
41.	Which of the following	parameters from plasma	a concen	tration time prof	ile stu	udy givesindication of the
	rate of drug absorption	?				
	(a) C_{max} (b)	o) T _{max}	(c) AU	C	(d)	t _{1/2}
42.	Which of the following	pairs has high binding a	ffinity for	r 5α -reductase		
	(a) Letrozole and andro	ostenedione	(b)	Finasteride and	testo]	lactone
	(c) Finasteride and 5-D	OHT	(d)	Finasteride and	testo	sterone
43.	Which of the following	skeletal muscle relaxants	acts dire	ectly on the contr	actile	mechanism of the muscle
	fibers					
	(a) Pancuronium	(b) Baclofen	(c)	Dantrolene	(d)	Chorzoxazone
44.	Which is the molecular t	target for the vinca alkalo	oids as ar	nticancer agents		
	(a) Tyrosine kinase	(b) DNA	(c)	Ribosomes	(d)	Tubulin
45.	Choose the correct pair	of the neurodegenerative	ve disorc	lers from those gi	iven l	pelow.
	(a) Parkinson's disease	e and Alzheimer's diseas	e(b)	Schizophrenia a	nd M	ania
	(c) Alzheimer's disease	e and Schizophrenia	(d)	Parkinson's dise	ase a	nd Autism
46.	A 64 year old woman v	with a history of Type I	I diabete	s is diagnosed w	rith h	eart failure. which of the
	followings would be a P	oor choice in controlling	her dial	oetes		
	(a) Metformin	(b) Pioglitazone		Glipizide	` '	Exenatide
47.	Mifepristone and geme	prost combination is us	sed for m	nedical termination	on of	pregnancy. The action is
	causeddue to which of the	he following mechanism	S			
	(a) Mifepristone is an a	antiestrogen while geme	prost is a	n prostaglandin E	recep	otor agonist
	(b) Mifepristone is an a	antiprogestin while geme	eprost is	a prostaglandin E	rece	ptor agonist
	(c) Mifepristone is an a	antiandrogen while geme	eprost is	a prostaglandin E	rece	ptor agonist
		antiprogestin while geme	-	a prostaglandin E	rece	ptor antagonist
48.	Which one of the follow	rings is a β lactamase inh				
	(a) Penicillanic acid			Embonic acid		
	(c) Cephalosporanic ac		()	Clavulanic acid		
49.	All of the followings are	indications for use of A				•
	(a) Hypertension			Myocardial infai		l
	(c) Left ventricular dys			Pheochromocyt		
50.	Neural tube defects may	·		_	drugs	S
	(a) Ethosuximide	(b) Vigabatrin	(c)	Valproic acid		(d) Primidone



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51.	Which water is used for hand washing in a cha	nge 1	oom of pharmaceutica	al manufacturing	g plant?
	(a) Potable water (b) Purified water		(c) Disinfectant water	er (d) Soap	water
52.	Which one of the following drying methods is o	omn	nonly used in Pharma	industry for dry	ingof soft shell
	capsules?				
	(a) Truck drying. (b) Fluid bed drying		(c) Vacuum drying	(d) Microv	wave drying
53.	Which one of the followings does NOT afford a	mac	romolecular inclusion o	compound	
	(a) Zeolites (b) Dextrins	(c)	Silica gets	(d) Cyclodextr	ins
54.	If C is the concentration of dissolved drug an	d Cs	is the saturation con	centration. In v	which case the
	sink conditions are said to be maintained?				
	(a) $C < 20\%$ of Cs (b) $C > 20\%$ of Cs	(c)	C < 10% of Cs	(d) C > 10% o	of Cs
55.	Which condition does not apply as per Indian k	aw w	hile conducting single	dose bioavailabi	lity study of ar
	immediate release product				
	(a) Sampling period should be at least three t1	/2 el			
	(b) Sampling should represent pre-exposure, p	peak	exposure and post-ex	posure phases	
	(c) There should be at least four sampling poin	ıts du	ring elimination phas	e	
	(d) Sampling should be continued till measure	d AU	C is at least equal to 80)% of AUC	
56.	Upon standing sometimes gel system shrinks a b	it an	d little liquid is pressed	out What is this	sphenomenon
	known as	E N	O22ION		
	(a) Oozing (b) Syneresis	(c)	Shrinking	(d) Desolvation	n
57.	Which of the following routes of administration	of d	rugs is associated with	ı Phlebitis	
	(a) Subcutaneous (b) Intravenous	(c)	Intraspinal	(d) Intradural	
58.	Study the following two statements and choose	the c	correct answer		
	[P] Antibodies are serum proteins providing in	nmu	nity.		
	[Q] IgG provides immunity to new born babies	whil	e IgM is the first gener	ated antibody.	
	(a) P is correct and Q is incorrect	(b)	P is incorrect and Q i	s correct	
	(c) Both P and Q are correct	(d)	Both P and Q are inc	orrect	
59.	Which microbe is used for validation of sterilization	ation	by filtration process		
	(a) Bacillus stearothermophilus	(b)	Pseudomonas diminu	ta	
	(c) Bacillus subtilis	(d)	Pseudomonas aerugin	eosa	
60.	Non-linear pharmacokinetics can be expected of	due t	0		
	[P] Enzyme induction				
	[Q] Active secretion Choose the correct answe	r			
	(a) Both P and Q are true	(b)	P is true, Q is false		
	(c) Q is true. P is false	(d)	Both P and Q are fals	e	
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61. Which wavelength of the UV light provides maximum germicidal action

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	(a) 253.7 nm	(b) 275.5 nm	(c) 2	83.5 nm	(d)	240.0 nm
62.	Which of the following st	atements is INCORRE	CT			
	(a) Chick Martin test use	es organic matter in n	nedia			
	(b) The organism in Ride	eal-walker test is <i>S. typ</i>	ohi			
	(c) Rideal-walker test us	es organic matter in r	nedia			
	(d) The organism in Chic	ck Martin test is <i>S. typ</i>	hi			
63.	Which of the following fo	orces contribute to sta	bility of	charge-transf	fer complex	es
	(a) Resonance forces					
	(b) Resonance and Lond	on dispersion forces				
	(c) Dipole-dipole interac	tions and London dis	persion	forces		
	(d) Resonance forces an	d dipole-dipole intera	ctions			
64.	Which of the following is	sotherms are produc	ed wher	the heat of	condensati	on of successive layers is
	more than the heat of ad	sorption of first layer				
	(a) Type III and IV		(o) Type II an	d V	
	(c) Type I and III			d) Type III ar	nd V	
65.	Which of the followings a	ct as a non-ionic emu	lsifying	agent		
	(a) Triethanolamineoleat	te DI		o) Polyoxyeth	ylene sorb	itan monooleate
	(c) N-Cetyl-N-ethylmorp	holinium ethosulfate	E N	d) Dioctylsulp	hosuccinat	e
66.	The minimal effective flow	w rate of air in laminai	flow ho	od should be r	not less thar	n how many cubic feet per
	minute					
	(a) 10	(b) 50	(0	2) 100		(d) 1000
67.	Which of the following So	chedules include shelf	life of dr	ugs		
	(a) Schedule F	(b) Schedule M	(0	c) Schedule G	r	(d) Schedule P
68.	Which of the following pu	umps is used in handl	ing of co	orrosive liquio	ds	
	(a) Turbine pump	(b) volute pump	(0	c) Air binding	g pump	(d) Peristaltic pump
69.	By addition of which of the	ne followings the shell	s of soft	gelatin capsu	les may be	madeelastic
	(a) Polyethylene glycol	(b) Sorbitol	(0	c) Propylene	glycol	(d) Dibutyl phthalate
70.	Convert 90% v/v alcohol	to Proof strength. Ch	oose the	e correct ansv	ver.	
	(a) 57.77° under proof		(1	o) 57.77° ove	er proof	
	(c) 47.41° over proof		(0	d) 47.41° und	der proof	
71.	Department of Transport	Test (DOT) is perform	med for	which of the	followings	
	(a) Strip packing	(b) Aerosols	(0	c) Injection pa	icking	(d) Glass containers
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- 72. What is the Heat of vaporization of water at 100°C?
 - (a) 2790 cal/mole
- (b) 7290 cal / mole (c) 7920 cal/mole
- (d) 9720 cal/mole
- 73. Determine the correctness or otherwise of the following Assertion [a] and the Reason [r]:

Assertion[a]: For a pharmaceutical powder true density is greater than the granule density.

Reason[r]: Mercury displacement used for determining granule density, allows penetration of liquid into internal pores of the particles.

- (a) [a] is true but [r] is false
- (b) Both [a] and [r] are false
- (c) Both [a] and [r] are true and [r] is the correct reason for [a]
- (d) Both [a] and [r] are true but [r] is NOT the correct reason for [a]
- 74. Determine the correctness or otherwise of the following statements:
 - [P] Rheopexy is the phenomenon when a sol forms gel more readily when sheared gently.
 - [Q] In a rheopectic system, sol is the equilibrium form.
 - [R] Rheopexy is a phenomenon when a sol forms gel when the material is kept at rest.
 - (a) [R] is true but [P] and [Q] are false
- (b) [P] is true but [Q] and [R] are false
- (c) [P], [Q] and [R], all are false
- (d) [P], [Q] and [R], all are true
- 75. Define PlasmapheresisChoose the correct answer
 - (a) The process of collecting plasma and returning the red blood cells concentrate to the donor
 - (b) The process of collecting red blood cells concentrate and returning the plasma to the donor
 - (c) The process of separating whiteblood cells from blood
 - (d) The process of generating artificial blood plasma expanders
- 76. Molecules in the smectic liquid crystals are characterized by which one of the followings
 - (a) Mobility in three directions and rotation in one axis
 - (b) Mobility in two directions and rotation in one axis
 - (c) Mobility in two directions and no rotation
 - (d) Mobility in three directions and no rotation
- 77. Choose the correct sequence of Moisture vapor Transmission Rate in packaging materials?
 - (a) Paper >Aluminium foil >PVC>PVdC
- (b) Aluminium foil >PVC>PVdC> Paper
- (c) Aluminium foil>PVdC>PVC> Paper
- (d) Paper >PVC>PVdC>Aluminium foil
- 78. How many mL of 50% (w/v) dextrose solution and how many mL of 5% (w/v) dextrose solution are required to prepare 4500 mL of a 10 (w/v) solution?
 - (a) 500 mL of 50% and 4000 mL of 5%
- (b) 1000 mL of 50% and 3500 mL of 5%
- (c) 4000 mL of 50% and 500 mL of 5%
- (d) 1500 mL of 50% and 3000 mL of 5%

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79.	9. A drug is administered to a 65 Kg patient as 500) mg tablets every 4 hours. Ha	lf-1ife ofthe drug is 3 h,volume
	of distribution is 2 liter/Kg and oral bioavailabili	ty of the drug is 0.85.Calcu1ate	e the steady state concentration
	of the drug		
	(a) 5.05mcg/ml (b) 4.50 mcg/ml	(c) 3.53 mcg/ml	(d) 3.00 mcg/ml
80.	O. P-Glycoprotein pump is responsible for which	one of the followings	
	(a) Transporting the drugs from the enterocy	tes into the gutlumen	
	(b) Transporting the drugs from gut lumen in	to enterocytes	
	(c) Transporting the drugs from oral mucosa	into blood capillaries	
	(d) Transporting the drugs from Peyer's patch	nes into the gut lumen	
81.	1. Statement [x]:Hofmeister series grades coagula Statement[Y]:Therelative coagulating power is	•	per their ionic size.
	[P] Al***> Ba ** [Q] Li > F -[R] N		
	Choose the correct statement:		
	(a) Statement x is true but P, Q and R are false	in Statement Y	
	(b) Statement x is false and P, Q and R arefalse		
	(c) Statement x is true and Q and R are false in		
	(d) Statement x is false and P is false in Statement		
82.	2. The first stage of wetting on addition of a grant	lating agent to the powders	is characterized by which one
	of the followings?	ENTER	
	(a) Capillary state (b) Pendular state	(c) Funicular state	(d) Droplet state
83.	3. Larger values of Ky in the Heckel Plot indicate	formation of what quality of	tablets?
	(a) Harder tablets (b) Softer tablets	(c) Fluffy tablets	(d) Brittle tablets
84.	4. The degree of flocculation of a suspension is 1	.5 and the sedimentation vo	lume is 0.75. what will be the
	ultimate volume of deflocculated suspension		
	(a) 2.0 (b) 1.5	(c) 0.75	(d)0.5
85.	5. What will be the time required for a drug exl	nibiting first order rate cons	stant of 4.6/hr to be degraded
	from initial concentration of 100 mg/ml to 10 $$	mg/ml?	
	(a) 2 hr (b) 4hr	(c) 9 hr	(d) 0.5 hr
86.	6. What will be the dose required maintaining th	erapeutic concentration of 2	0 μgm/ml for 24 hr of a drug
	exhibiting total clearance of 2 L/hr?		
	(a) 96 mg (b) 480 mg	(c) 960 mg	(d) 48 mg
87.	7. What will be the urine to plasma ratio of a wea	akly acidic drug having pKa o	of 5?
	[urine (pH : 5) plasma (pH : 7)]		
	(a) 1:101 (b) 1:201	(c) 2:101	(d) 1:202
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88.	The Reynolds number widely used to classify flow beh	avior of fluids is the ratio of which one of the followings:
	(a) Inertial forces to gravitational forces	(b) Inertial forces to viscous forces
	(c) Viscous forces to inertial forces	(d) viscous forces to gravitational forces
89.	If the distillation graph using McCabe Thiele method	d is parallel to x-axis, then the feed is which one of the
	followings?	
	(a) Saturated liquid	(b) Saturated vapor
	(c) Superheated liquid	(d) Superheated vapor
90.	What for the baffles are provided in a shell and tub	e heat exchanger?
	(a) To increase turbulence	(b) To decrease turbulence
	(c) To prevent corrosion	(d) To increase shell side passes
91.	SOS means which one of the followings	
	(a) Take occasionally	(b) Take immediately
	(c) Take when necessary	(d) Take as directed
92.	Which statement is FALSE for Association Colloids	
	(a) They are also called amphiphiles	(b) They contain aggregated molecules
	(c) They show partial solvation	(d) They are also called micelles
93.	Which of the followings is NOT a reciprocating pur	ip Ip
	(a) Plunger pump	(b) Diaphragm pump
	(c) Gear pump	(d) Piston pump
94.	Which is NOT applicable to protein binding	
	(a) Klotz reciprocal plot	(b) Sandberg modified equation
	(c) Blanchard equation	(d) Detli plot
95.	Statement [P]: Soft gelatin capsules contain 12-15 %	% moisture.
	Statement [Q]: Hard gelatin capsule shells contain 6	-10 % moisture.
	Choose the correct statement?	
	(a) Both of the above statements P&Q are true	(b) Both of the above statements P&Q are false
	(c) Statement P is true and Q is false	(d) Statement P is false and Q is true
96.	According to USP, the speed regulating device of	of the dissolution apparatus should be capable of
	maintainingthe speed within limits of what % of the	e selected speed?
	(a) 1% (b) 2%	(c) 4% (d) 5%
97.	A drug whose solubility is 1 g/L in water, when give	en orally at a dose of 500 mg is absorbed up to 95% of
	the administered dose. The drug belongs to which c	lass according to the BCS classification?
	(a) Class I (b) Class II	(c) Class III (d) Class IV



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00	Which statement is NOT	bus for stoon	a diatillation

- (a) It is also called differential distillation
- (b) It can be used for separation of immiscible liquids
- (c) It can be applied for volatile substances
- (d) It can be used for separation of miscible liquids
- 99. The area of clear opening of any two successive sieves according to Tyler standard is in the ratio of----.
 - (a) 1:4
- (b) 1:6
- (c) $1:\sqrt{2}$
- (d) $1:\sqrt{3}$

100. What is Primogel

- (a) Substituted HPMC for direct compression
- (b) Modified microcrystalline cellulose for direct compression
- (c) Hydro gellingpolymerfor gel formation
- (d) Modified starch for disintegration
- 101. A tooth paste contains stannous fluoride and calcium pyrophosphate along with other formulation constituents. Choose the correct statement out of the followings?
 - (a) Stannous fluoride is an anticaries agent while calcium pyrophosphate is a dentifrice
 - (b) Stannous fluoride is a dentifrice while calcium pyrophosphate is a desensitizing agent
 - (c) Stannous fluoride is a desensitizing agent while calcium pyrophosphate is an anticaries agent
 - (d) Both are dentifrices while calcium pyrophosphate is additionally a desensitizing agent
- 102. Hydrogen peroxide solution (20 volumes) is used topically as a mild antiseptic. It is mainly used for cleaning of wounds which could be due to some of the following actions of hydrogen peroxide.
 - [P] Astringent action
 - [Q] Nascent hydrogen releasing action
 - [R] Oxidizing action
 - [S] Mechanical cleansing action Choose the correct statements for the use of hydrogen peroxide as cleaning agent for wounds
 - (a) P&R
- (b) P&Q
- (c) R&Q
- (d) R&S
- 103. Magnesium trisilicate is considered to be a better antacid than aluminium hydroxide due to its following additional properties:
 - [P] It has a fixed chemical composition
 - [Q] It forms colloidal silicone dioxide
 - [R] Magnesium ions overcome constipation
 - [S] Magnesium ions cause higher inhibition of pepsin than aluminium ions Choose the correct combination of statements
 - (a) Q&S
- (b) R&S
- (c) P&Q
- (d) Q&R



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- 104. Boric acid is a weak acid (pKa 9.19) which cannot be titrated with a standard solution of sodium hydroxide using phenolphthalein as indicator. This titration becomes possible on addition of glycerol due to one of the following reactions. Choose the correct reaction
 - (a) Boric acid becomes boronic acid on reaction with glycerol
 - (b) Boric acid gives a monoprotic tetravalent boron ester with glycerol
 - (c) Boric acid gives a tribasic acid on reaction with glycerol
 - (d) Two boric acid molecules combine to give an anhydride in presence of glycerol
- 105. An iron compound used as heamatinic agent must meet two requirements i.e. it should be biologically available and be non-irritating. Which one of the following compounds meet the above two requirements most closely
 - (a) Ferric chloride

(b) Ferric ammonium sulphate

(c) Ferric ammonium citrate

- (d) Ferrous thioglycollate
- 106. Iodine-131 as sodium iodide solution is used as a radiopharmaceutical for diagnostic and therapeutic purposes. Its usage is dependent on the release of the following emissions:
 - [P] Alpha particles

[Q] Positrons

[R] Beta emission

[S] Gamma radiation Choose the correct combination of statements

(a) R&S

- (b) Q&S
- (c) P&R
- (d) P&S

107. Arrange the following Lowry-Bronsted acids into their decreasing order of acidity (highest to lowest)

- [P] C_2H_5OH
- [Q] $H_3C C \equiv CH$
- $[R] H_2O$
- [S] CH₃NH₂

(a) R>P>Q>S

(b) P>R>Q>S

(c) P > Q > R > S

- (d) R > Q > P > S
- 108. Alkenes show typical electrophilic addition reactions. If an electron withdrawing group is attached to one of the carbons bearing the double bond, what will happen to the mechanism of the addition reaction
 - (a) It remains electrophilic
 - (b) It becomes free radical addition
 - (c) It becomes pericyclic reaction
 - (d) It becomes nucleophilic
- 109. Aprotic polar solvents increase the rate of SN2 reactions manifold. Enhancement in the rate of such reactions is due to which one of the following effects
 - (a) Solvation of the anion by the solvent leaving the cation unaffected
 - (b) Solvation of both of the ionic species
 - (c) Desolvation of the cation and solvation of the anion
 - (d) Solvation of the cation by the solvent leaving the anion unaffected



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- 110. Five-membered heteroaromatic compounds show a much higher rate of electrophilic aromatic substitutionreactions than the six-membered ones. This is due to which one of the following reasons?
 - (a) Five-membered heteroaromatic compounds have higher circulating electron density in the ring than the six-membered ones
 - (b) Five-membered heteroaromatic compounds have lower circulating electron density in the ring than the six-membered ones
 - (c) Five-membered rings are smaller in size than the six membered ones which affects their reaction rates
 - (d) Six membered heteroaromatic rings are flat while the five-membered ones are puckered
- 111. Pyridine is more basic than pyrrole. This is due to which of the following facts
 - (a) Lone pair of electrons on N in pyrrole is localized
 - (b) Lone pair of electrons on N in pyridine is localized
 - (c) Nitrogen of pyrrole has one hydrogen atom attached to it while pyridine does not have any
 - (d) Pyridine has three double bonds while pyrrole has only two
- 112. Diels-Alder reaction can be carried out in which of the following heterocyclic compounds most readily
 - (a) Pyrrole
- (b) Thiophene
- (c) Furan
- (d) Pyridine
- 113. In nucleophilic aliphatic substitution reactions arrange the following leaving groups in decreasing order of their leaving capacity?
 - [P] Brosyl
- [Q] Hydroxyl
- [S] Mesyl

- (a) S > R > P > Q
- (b) P > S > R > Q
- (c) R>Q>S>P
- (d) R>S>Q>P
- 114. Determine the correctness or otherwise of the following Assertion [a] and the Reason [r]:

Assertion (a): Quaternary ammonium phase transfer catalysts can enhance the rate of nucleophilic aliphatic substitution reactions in biphasic systems with water soluble nucleophiles.

Reason (r): Quaternary ammonium compounds are highly polar, positively charged water soluble compounds.

- (a) Both (a) and (r) are true but (r) is not the correct reason for (a)
- (b) Both (a) and (r) are true and (r) is the correct reason for (a)
- (c) (a) is true (r) is false
- (d) Both (a) and (r) are false
- 115. Which one of the given compounds can be used as primary standard for standardization of perchloric acid solution in non-aqueous titrations?
 - (a) Potassium hydrogen phthalate
- (b) Sodium bicarbonate
- (c) Potassium dihydrogen phosphate
- (d) Sodium methoxide

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- 116. In context of complexometry (complexometric titrations), the two terms labile and inert complexes, are used frequently. Choose the correct statement about them?
 - (a) Labile complexes are formed instantly while inert complexes take hours or days in their formation
 - (b) Labile complexes take much longer time in formation than inert complexes
 - (c) Labile complexes get hydrolyzed in water immediately while inert complexes are stable in water
 - (d) Labile complexes get decomposed on mild heating in aqueous solutions while inert complexes do not decompose
- 117. Indicators used in complexometric titrations are chelating agents. Choose the correct statement about them
 - (a) Indicator-metal ion complex should have higher stability than EDTA-Metal ion complex
 - (b) Indicator-metal ion complex should have lower stability than EDTA-Metal ion complex
 - (c) Indicator-metal ion complex should have equal stability as EDTA-Metal ion complex
 - (d) Stability of the indicator-metal ion complex is not an important criterion in complexometric titrations
- 118. In colorimetric estimation of a drug, the following sequence of reactions is carried out: treatment of the aqueous solution of the drug with sodium nitrite solution in acidic medium followed by addition of sulphamic acid and then treatment with N-(l-naphthyl) ethylene- diamine in slightly basic medium to obtain a pink colour; which is measured at a fixed wavelength tocorrelate the quantity of the drug with the optical density. Identify the drug under estimation
 - (a) Streptomycin sulphate

(b) Thiamine hydrochloride

(c) Dexamethasone

- (d) Sulphamethoxazole
- 119. Name the compound used for standardization of Karl-Fisher reagent in aquametry?
 - (a) Sodium tartrate dihydrate
- (b) Copper sulphate pentahydrate

(c) Sodium iodide

- (d) Sodium thiosulphate
- 120. In the electrochemical series, the standard reduction potentials of copper and zinc are +0.337 v and -0.763 v, respectively. If the half cells of both of these metals are connected externally to each other through an external circuit and a salt bridge, which one of the following processes will take place?
 - (a) Zinc metal electrode will start dissolving in solution while copper ions will start depositing on the copper electrode.
 - (b) Copper metal electrode will start dissolving in solution while zinc ions will start depositing on the zinc electrode
 - (c) Both of the metal electrodes will start dissolving in the solution
 - (d) Both types of ions will start depositing on their respective electrodes

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121. In polarography. DME has a number of advantages. One of the advantages is that mercury has large hydrogen over potential. It means which one of the followings?

- (a) Hydrogen ions get easily reduced on the DME
- (b) Hydrogen gas gets easily reduced on the DME
- (c) Hydrogen ions require high potential to be reduced at DME
- (d) Water is difficult to get oxidized at DME

122. Following are the desirable properties of the liquid phase used in GLC EXCEPT for one of the followings. Identify that.

- (a) It should be inert to the analytes
- (b) It should have high viscosity at operating temperature
- (c) It should have low vapour pressure at the operating temperature
- (d) It should have a high resolving power

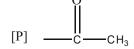
123. In HPLC analysis what type of column would you prefer

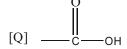
- (a) A column with high HETP and high number of plates
- (b) A column with low HETP and low number of plates
- (c) A column with high HETP and low number of plates
- (d) A column with low HETP and high number of plates

124. To synthesize sulphonyl urea antidiabetic, which of the following reactions can be used

- (a) Reacting a suitably substituted sulphonyl chloride with a desired urea derivative under basic conditions
- (b) Reacting a suitably substituted sulphonamide with a desired isocyanate derivative
- (c) Reacting a suitably substituted sulphonic acid with adesired isocyanate derivative
- (d) Reacting a suitably substituted sulphoxide with a desired urea derivative

125. In an optically active organic compound a chiral carbon has the following attached groups: using Sequence Rules choose the correct order of priority of the groups.





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[R]
$$-CH = CH_2$$

$$[R]$$
 -CH = CH₂ $[S]$ - C \longrightarrow CH

Using 'Sequence Rules' choose the correct order of priority of the groups

(a) Q>P>S>R

(b) P>Q>R>S

(c) Q>P>R>S

(d) P>Q>S>R

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126. The following statements are given:

- [P] Conformational isomers are interconvertible by rotation around a single bond while configurational isomers cannot be interconverted without breaking a bond.
- [Q] Configurational isomers could be optically active or optically inactive while conformational isomers are optically inactive
- [R] Geometric isomers must have a double bond in their structures
- [S] Geometric and optical isomers are the two distinct categories of configurational isomers.

Choose the correct combination of statements.

- (a) P, Q & S are true while R is false
- (b) P, R & S are true while Q is false
- (c) Q, R & S are true while P is false
- (d) P, Q & R are true while S is false
- 127. A carbocation will NOT show one of the following properties. Choose that
 - (a) Accept an electron to give a carbene
 - (b) Eliminatea proton to afford an alkene
 - (c) Combine with a negative ion
 - (d) Abstract a hydride ion to form an alkane $\mathbb{R} \setminus \mathbb{R} \setminus \mathbb{R}$
- 128. Determine the correctness or otherwise of the following Assertion (a) And the Reason (r):

Assertion (a): Formaldehyde and benzaldehyde both undergo Cannizaro reaction while acetaldehyde and Phenyacetaldehyde undergo Aldol condensation.

Reason(r): Aldehydes can undergo both Cannizaro as well as Aldol condensation while ketones undergo only Cannizaro reaction.

- (a) Both (a) and (r) are false
- (b) (a) is true but (r) is false
- (c) (a) is fa1se but (r) is true
- (d) Both (a) and (r) are true
- 129. Choose the FALSE statement for E 2 mechanism in elimination reactions?
 - (a) These reactions are accompanied by rearrangements
 - (b) These reactions show a large hydrogen isotope effect.
 - (c) These reactions show a large element effect
 - (d) These reactions are not accompanied by hydrogen exchange

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130. Choose the correct statement for writing the sequence of amino acids in a polypeptide?

- (a) Amino terminal is to be written on the left hand side while the carboxyl terminal is to be written on the right hand side
- (b) Carboxyl terminal is to be written on the left hand side while the amino terminal is to be written on the right hand side
- (c) Any of the amino acid terminals can be written on any sides but it is to be mentioned by specifying the amino terminal and the carboxyl terminal in abbreviations
- (d) It varies from author to author how the sequence of amino acids in a polypeptide is to be written
- 131. BETA-Carboline ring system is present in
 - (a) Emetine
- (b) Riboflavine
- (c) Deserpidine
- (d) d-Tubocurarine

- 132. Which one of the followings is NOT a bioisosteric pair?
 - (a) Divalent ether (-0-) and amine (-NH)
- (b) Hydroxyl (-OH) and thiol (-OH)
- (c) Carboxylate (CO₂-) and sulfone (SO₂)
- (d) Hydrogen(-H) and fluorine (-F)
- 133. Of the four stereoisomers of chloramphenical which one is the biologically active isomer
 - (a) L-Erythro
- (b) L-Threo
- (c) D-Erythro
- (d) D-Threo
- 134. The catalytic triad in acetyl cholinesterase is composed of which of the following amino acid residues?
 - (a) Serine, Histidine and Glutamate
- (b) Serine, Arginine and Glutamate
- (c) Threonine, Histidine and Aspartate
- (d) Threonine, Arginine and Glutamate
- 135. Fajan's method of titrimetric analysis involves detection of the end point on the basis of which one of the followings
 - (a) Colour change

(b) Appearance of a precipitate

(c) Neutralization reaction

- (d) Adsorption phenomenon
- 136. Which of the following statements is true?
 - (a) Aliphatic protons have chemical shifts > 7 ppm
 - (b) Spin quantum number of proton is 1
 - (c) Chemical shift describes electronic environment of a proton
 - (d) Vicinal coupling constant is always higher than geminal coupling constant
- 137. In FT-IR instruments Michaelson interferometer is used in place of grating. The function of the interferometer is to act as a modulator. What do you understand by this statement?
 - (a) The function of the interferometer is to act as a monochromator
 - (b) The function of the interferometer is to convert high frequency radiations into low ones
 - (c) The function of the interferometer is to convert low frequency radiations into high ones
 - (d) The function of the interferometer is to convert frequency domain spectra into time domain spectra

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138.	Poly	vamine polystyrene resins belong to which ca	ateg	ory of ion-exchang	ge resins?	
	(a)	Strongly Acidic Cation Exchange Resins	(b)	Strongly Basic An	ion Exchange Resir	IS
	(c)	Weakly Acidic Cation Exchange Resins	(d)	Weakly Basic Ani	on Exchange Resin	S
139.	Disc	crepancies in potential measurements involv	ring	factors like alkaliı	ne error and asymr	netry potentia
	are	associated with which of the following electr	odes	?		
	(a)	Hydrogen electrode	(b)	Quinhydrone elec	trode	
	(c)	Saturated calomel electrode	(d)	Glass Electrode		
140.	Whi	ich amongst the following auxochromes prod	duce	s a shift towards h	nigher energy wave	length?
	(a) -	-CH3 (b) -NHCH3	(c) -	-CI	(d) -C=0	
141.	Wha	at is the wave number equivalent of 400 nm	way	relength?		
	(a)	0.0025 cm^{-1} (b) 0.25 cm^{-1}	(c)	2500 cm ⁻¹	(d) 25000 cm ⁻¹	
142.	Chlo	proformis stored in dark colored bottles beca	ause	it is Oxidized in p	resence of light an	d air to a toxio
	com	npound. Identify that				
	(a)	CH ₂ Cl ₂ (b) COCl ₂	(c)	CO	(d) CCl ₄	
143.	All (Of the given compounds show n* transition. I	dent	ify which one will	have the highest λι	max?
	(a)	Methanol (b) Methylamine	(c)	Methyl iodide	(d) Methyl bromio	de
144.	Give	en are the four statements about NMR:		ICCIONI		
	[P]	13CMR is a less sensitive technique than PM	IR	JSSION I T E R		
	[Q]	Both 13C and H have l =1/2	יו ע			
	[R]	Precessional frequency of the nucleus is dire	ectly	proportional to tl	ne applied magneti	c field
	[S]	Deuterium exchange studies can be perform	ned	to ascertain proto	ns attached to hete	roatoms.
	Cho	ose the correct combination of statements.				
	(a)	P, Q & R are true while S is false (b)	R, S	& Q are true while	P is false	
	(c)	S, P & Q are true while R is false (d)	All	are true		
145.	Whi	ich of the following statements is WRONG?				
	(a)	The energy required for removing an electronic	on fi	om a molecule vai	ries in the given or	der:
		lone pair $<$ conjugated n $<$ non conjugated r	1 < a			
	(b)	Isotopic ratio is particularly useful for the de	tecti	on and estimation	of number of S, CI a	ind Br atoms in
		the compound in MS				
	(c)	Neutral fragments and molecules do not get	dete	cted in the detecto	r in MS	
	(d)	The most intense peak in the MS is called th	e mo	olecular ion peak		
146.	Whi	ich one is an example of a bulk property dete	ector	used in HPLC?		
	(a)	Fluorescence detector	(b)	Photo diode array	y detector	
	(c)	Refractive index detector	(d)	UV detector		
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- 147. The protons orthoto the nitro group in p-nitrotoluene are examples of which one of the Following types
 - (a) Chemically equivalent but magnetically non-equivalent protons
 - (b) Chemically and magnetically equivalent protons
 - (c) Chemically and magnetically nonequivalent protons
 - (d) Chemically nonequivalent but magnetically equivalent protons
- 148. A 250 kg/mL solution of a drug gave an absorbance of 0.500 at 250 nm at a path length of 10 mm. what is the specific absorbance of the drug at 250 nm?
 - (a) 0.002 cm ⁻¹gm -1 1itre

(b) 0.002 cm ⁻¹gm⁻¹ dl

(c) 20 cm ⁻¹gm⁻¹ 1itre

- (d) 20 cm ⁻¹gm⁻¹ dl
- 149. The peak at m/z 91in the mass spectrum for alkyl benzenes is due to which one of the followings
 - (a) Alpha fission

(b) Retro Diels-Alder rearrangement

(c) Mc-Laffartey rearrangement

- (d) Tropylium ion formation
- 150. Following statements are given for a chemical reaction: Change in Gibb's free energy of the reaction has a negative value. Change in Enthalpy of the reaction has a negative value Change in Entropy of the reaction has a positive value Based on the above statements choose the correct answer.
 - (a) The reaction is spontaneous.
 - (b) The reaction is non-spontaneous.
 - (c) The reaction could either be spontaneous or non-spontaneous.
 - (d) The reaction can never be spontaneous.

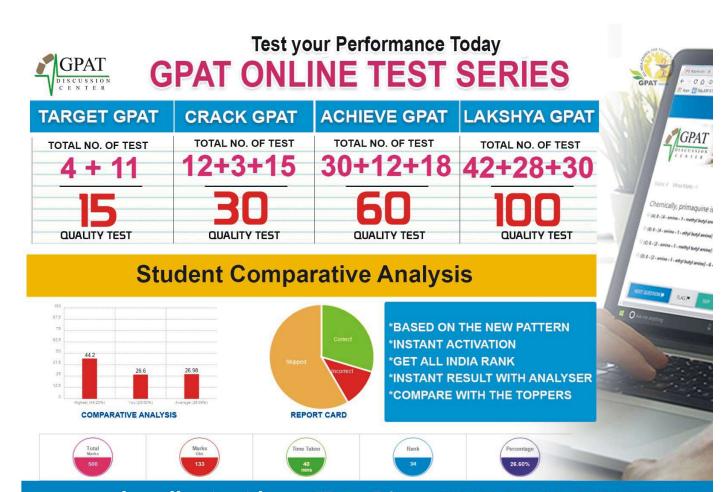
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1-c	2-d	3-c	4-b/d	5-d	6-a	7-c	8-b	9-d	10-с
11-a	12-a	13-a	14-b	15-c	16-b	17-с	18-d	19-b	20-b
21-a	22-d	23-b	24-c	25-b	26-с	27-a	28-b	29-с	30-b
31-b	32-d	33-с	34-a	35-d	36-с	37-b	38-b	39-b	40-b
41-b	42-d	43-с	44-d	45-a	46-b	47-b	48-d	49-d	50-с
51-b	52-b	53-d	54-c	55-d	56-b	57-b	58-c	59-b	60-a
61-a	62-c	63-b	64-d	65-b	66-c	67-d	68-d	69-b	70-b
71-b	72-d	73-a	74-b	75-a	76-b	77-d	78-a	79-d	80-a
81-a	82-b	83-a	84-d	85-d	86-с	87-b	88-b	89-b	90-a
91-с	92-a	93-с	94-d	95-b	96-с	97-b	98-d	99-с	100-d
101-a	102-d	103-d	104-b	105-с	106-a	107-a	108-a	109-d	110-a
111-b	112-с	113-b	114-b	115-a	116-a	117-b	118-d	119-с	120-a
121-с	122-b	123-d	124-b	125-a	126-a	127-d	128-b	129-a	130-a
131-с	132-с	133-d	134-a	135-d	136-с	137-d	138-d	139-d	140-d
141-d	142-b	143-d	144-d	145-d	146-с	147-b	148-d	149-d	150-a



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