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GPAT Discussion Center: Makes Study Easy

GPAT - 2010



GPAT QUESTIONS The vitamin essential in tissue culture medium is (a) Pyridoxine (b) Thiamine (c) Nicotinic acid (d) Inositol Gingkgo biloba is used for its (a) Expectorant activity (b) Lipid lowering activity (c) PAF antagonistic activity (d) Antidepressant activity The amount of barbaloin present in Aloe vera is (a) <1% (b) 3.5-4% (c) 1-1.5% (d) 2-2.5% Sildenafil is used for treatment of one of the following Disorders: (b) Unstable angina (a) Systolic hypertension (c) Pulmonary hypertension DISCU(d) Hypertension due to eclampsia Cardiac glycosides have the following configuration in the aglycone part of the steroid nucleus (b) 5α, 14β-(a) 5α , 14α – (c) 5 β , 14 α (d) 5β, 14β-Quassia wood is adulterated with (a) Brucea antidysentrica (b) Cassia angustifoila (c) *Cinnamomum zeylanicum* (d) Cephaelis ipecacuanaha Eugenol is present in (a) Fennel (b) Tulsi (c) Cardamom (d) Coriander Which one of the following drugs is prescribed for the treatment of Philadelphichromosome positive patients with chronic myeloid Leukemia? (a) Pentostatin (b) Methotrexate (c) Imatinib (d) L-Asparaginase Which of the following monoclonal antibodies is prescribed for patients with nonHodgkin's Lymphoma (a) Infliximab (b) Abciximab (c) Gemtuzumab (d) Rituximab 10. Identify the drug which is **NOT** used in the treatment of malaria caused by *Plasmodium falciparum*: (a) Artemisinin (b) Primaquine (c) Quinine (d) Mefloquine

11. Which one of the following drugs does **NOT** act through G-Protein coupled receptors

(a) Epinephrine (b) Insulin (c) Dopamine (d) TSH

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	DISCUSSION C E N T E R	<u>www.g</u>	dc4	<u>gpat.com</u>		GATE - 2010		
12.	Which one of the followin	ng drugs is most effective in	prev	enting transmission of	HIV	virus from the mother		
	to the foetus							
	(a) Lamivudine	(b) Zidovudine	(c)	Indinavir	(d)	Ribavirin		
13.	Improvement of mem	ory in Alzheimer's dise	ase	is brought about by	y dr	ugs which increase		
	transmission in							
	(a) Cholinergic receptor	rs	(b)	Dopaminergic recep	tors			
	(c) GABAergic receptor	S	(d)	Adrenergic receptor	S			
14.	Which of the following n	on-opioid analgesic is a pr	odru	g				
	(a) Piroxicam	(b) Celecoxib	(c)	Nabumetone	(d)	Ketorolac		
15.	Which one of the following	ng drugs is NOT a typical a	nti-p	sychotic agent				
	(a) Chlorpromazine	(b) Haloperidol	(c)	Risperidone	(d)	Flupentixol		
16.	Which one of the following	ngs is a plasminogen activa	ator					
	(a) Tranexamic acid	(b) Streptokinase	(c)	Aminocaproic acid	(d)	None		
17.	Myasthenia gravis is diag	gnosed with improved neu	romı	iscular function by usi	ng			
	(a) Donepezil	(b) Edrophonium				Pancuronium		
18.		ng drugs specifically inhibi						
	(a) Daclizumab	(b) Prednisone	_(c)	Sirolimus	(d)	Tacrolimus		
19.	The chemical behaviour	I CE	ΝΊ	ΓΕR				
	(a) Acidic	(b) Basic	(c)	Neutral	(d)	Amphoteric		
20.	20. At physiological pH the following compound would be MOSTLY in the							
		CII						
		— CH ₃						
	0″							
	(a) Cationic form	ЮН	(h)	Unionized form				
	(c) Zwitterionic form			Anionic form				
21.		ngs is used as a mood stab			nd al	ko in certain enilentic		
	convulsions?		mzer	ior orpolar alsoraer a	nu u	so in cer ann ephépeie		
	(a) Phenytoin	(b) Lithium	(c)	Sodium valproate	(d)	Fluoxetine		
22.		for carboxylic acid group			(w)			
	(a) Pyrrole	(b) Isoxazole		Phenol	(d)	Tetrazole		
23.	The given antibiotic is an				(-)			
	(a) Roxythromycin	(b) Adriamycin	(c)	Aureomycin	(d)	Rifamycin		
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24.	For glyburide, all of the following metabolic read	ctions are logical EXCEPT					
	(a) O-demethylation	(b) Aromatic oxidation					
	(c) Benzylic hydroxylation	(d) Amide hydrolysis					
25.	The effects observed following systemic adminis	stration of levodopa in the treatment of Par	kinsonism has				
	been attributed to its catabolism to dopamine	e. Carbidopa, can markedly increase the	proportion of				
	levodopa that crosses the bloodbrain barrier by	7					
	(a) Increasing penetration of levodopa through	BBB by complexation with it					
	(b) Decreasing peripheral metabolism of levod	ора					
	(c) Decreasing metabolism of levodopa in the C	ENS					
	(d) Decreasing clearance of levodopa from the	CNS					
26.	Ethambutol molecule has						
	(a) Two chiral centers and 3 stereoisomers	(b) Two chiral centers and 4 stereoi	somers				
	(c) Two chiral centers and 2 stereoisomers	(d) One chiral center and 2 stereois	omers				
27.	A compound will be sensitive towards IR radia	tion only when one of the following prop	erties undergo				
	transition on						
	(a) Polarizability	(b) Dielectric constant					
	(c) Dipole moment	(d) Refractivity					
28.	X-ray crystallographic analysis of an optically ac	tive compound determines its					
	(a) Optical rotatory dispersive power	(b) Absolute configuration					
	(c) Relative configuration	(d) Optical purity					
29.	Which one of the following statements is WRON	IG					
	(a) A singlet or triplet state may result when one of the electrons from the HOMO is excited to higher energy levels						
	(b) In an excited singlet state, the spin of the	electron in the higher energy orbital is pa	aired with the				
	electron in the ground state orbital						
	(c) Triplet excited state is more stable than the	singlet excited state					
	(d) When the electron from the singlet excited fluorescence phenomenon.	state returns to ground state, the molecule	always shows				
30.	Aminotransferases usually require the following	g for their activity					
	(a) Niacinamide	(b) Vitamin B ₁₂					
	(c) Pyridoxal phosphate	(d) Thiamine					
31.	Purity of water can be assessed by determining	one of its following properties instrumenta	lly				
	(a) pH	(b) Refractivity					
	(c) Viscosity	(d) Conductivity					
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32.	Which one of the following statements is WRONG					
	(a) Carbon NMR is less sensitive than proton NMR					
	(b) ¹² C nucleus is not magnetically active					
	(c) Both 13 C and 1 H have same spin quantum num					
	(d) The gyromagnetic ratio of 1 H is lesser than that	t of ¹² C				
33.	In the TCA cycle, at which of the following enzyme-c	atalyzed steps, incorporation of elements of water into				
	an intermediate of the cycle takes place					
	(a) Citrate synthase	(b) Aconitase				
	(c) Maleate dehydrogenase	(d) Succinyl Co-A synthase				
34.	Humectants added in cosmetic preparations general	ly act by				
	(a) Hydrogen bond formation	(b) Covalent bond formation				
	(c) Complex formation	(d) The action of London forces				
35.	In the mixing of thymol and menthol the following t	ype of incompatibility occurs				
	(a) Chemical incompatibility	(b) Therapeutic incompatibility				
	(c) Physical incompatibility	(d) Tolerance incompatibility				
36.	Bloom strength is used to check the quality of					
	(a) Lactose (b) Ampoules					
	(c) Hardness of tablets (d) Gelatin					
37.	The characteristic of non-linear pharmacokinetics i	nclude				
	(a) Area under the curve is proportional to the dose					
	(b) Elimination half-life remains constant,					
	(c) Area under the curve is not proportional to the dose					
	(d) Amount of drug excreted through remains con	stant				
38.	In the Drugs and Cosmetics Act and Rules, the Sche	dule relating to GMP is				
	(a) Schedule M (b) Schedule C	(c) Schedule Y (d) Schedule H				
39.	Thioglycolic acid-like compounds have applications	in following type of cosmetic formulations				
	(a) Depilatory preparations	(b) Epilatory preparations				
	(c) Vanishing creams	(d) Skin tan preparations				
40.	Which one of the following is a flocculating agent fo					
	(a) Aluminium chloride	(b) Bentonite				
	(c) Tragacanth	(d) Sodium biphosphate				
41.	The healing agent used in hand creams is					
	(a) Soft paraffin (b) Urea	(c) Bees wax (d) Stearyl alcohol				
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42.	Measurement of inulin renal clearance is a measu	sure for					
	(a) Effective renal blood flow	(b) Renal drug excretion rate					
	(c) Active renal secretion	(d) Glomerular filtration rate					
43.		ules with controlled structures with all bonds originatin					
	from a central core are known as						
	(a) Cyclodextrins (b) Dextrans	(c) Dendrimers (d) Liposomes					
44.		l bulking agent in the formulation offreeze dried low dos					
	drug products?	(a) Starsh (d) UDMC					
45	(a) Sodium chloride (b) Mannitol	(c) Starch (d) HPMC					
45.	The applicability of Noyes-Whitney equation is to (a) First order kinetics	(b) Zero order kinetics					
	(c) Mixed order kinetics	(d) Dissolution rate					
46.		ion of tablets for amine containing basic drugs to avoi					
10.	discoloration of the tablets?						
	(a) Dicakium phosphate	(b) Microcrystalline cellulose					
	(c) Starch	(d) Lactose					
47.							
		(c) 50 micron (d) 10 microns					
48.	What quantities of 95 % v/v and 45 % v/v alcoho	ols are to be mixed to make 800 mL of 65 % v/v alcohol					
	(a) 480 mL of 95 % and 320 mL of 45 % akohol	bl					
	(b) 320 mL of 95 % and 480 mL of 45 % akohol						
	(c) 440 mL of 95 % and 360 mL of 45 % alcohol	ol					
	(d) 360 mL of 95 % and 440 mL of 45 % alcohol	bl					
49.	The role of borax in cold creams is						
	(a) Anti-microbial agent	(b) To provide fine particles to polish skin					
	(c) <i>In-situ</i> emulsifier	(d) Antioxidant					
50.							
	(a) Quinine, antimalarial, isoquinoline alkaloid						
	(b) Reserpine, antihypertensive, indole alkaloid						
	(c) Quantitative microscopy, stomatal number, m	nyrrh					
= 1	(d) Palmitic acid, salicylic acid, fatty acids						
51.	*						
	(a) Jaborandi (b) Rhubarb	(c) Stramonium (d) Brahmi					
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pape	ALLAHABAD BILASPUR BHILAI RAIPUR NAGPUR	ng your Exampleparation.					

24. Alkaloids are NOT precipitated by (a) Mayer's reagent (b) Dragendroff Reagent (c) Picric acid (d) Millon's reagent (a) Senna (b) Digitalis (c) Belladonna (d) Coca 54. Bacopa monnieri plant belongs to the family (a) Scrophulariacea (b) Leguminosae (c) Polygalaceae (d) Rubiaceae 55. Tropane alkaloids are NOT present in (a) Lobelia inflate (c) Duboisia myoporoides (d) Lobelia inflate 56. Guggul lipids are obtained from (a) Commiphora molmol (e) Commiphora molmol (b) Boswellia serrata (c) Commiphora wighti (e) Commiphora solves usel in quantitative intersectory contains an average of (a) 4denosine (b) Sinigrim (c) Boswellia Suffring from Hepatitis C (a) Interferon with Stavuinin (b) Interferon with Zidovulne (c) Interferon with Stavinin (b) Interferon with Lamivudine 59. Select the correct combination of Angiotensin I to II (b) Interferon with Lamivudine (c) Inthibiting the conversion of Angiotensin I to II (b) Interferon with Lamivudine (c) Inhibiting the action of aldosterone (c) Diuretics (d) Antacids (d) Inhibiting the action of aldosterone		GPAT Discussion Center: Makes Study Easy					
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 a) Datura stramonium b) Erythrosylum coca c) Duboisia myoporoides c) Curggul lipids are obtained from a) Commiphora molmol b) Boswellia serrata c) Commiphora wighti c) Commiphora wighti d) Commiphora abyssinica 57. An example of N-glycoside is (a) Adenosine (b) Sinigrin (c) Rhein-8-glucoside (d) Aloin 58. One mg of Lycopodium spores used in quantitative interestropy contains an average of (a) 94,000 spores (b) Sinigrin (c) Nubor optices (c) 90,000 spores (d) 91,000 spores 59. Select the correct combination of drugs for the treatment of patients suffering from Hepatitis C (a) Interferon with Ribavirin (b) Interferon with Zidovudine (c) Interferon with Stavudine (d) Interferon with Zidovudine 60. ALISKIREN acts by (a) Inhibiting the conversion of Angiotensin I to II (b) Inhibiting the action of akdosterone 61. Digitalis toxicity is enhanced by co-administration of (a) Potassium (b) Quinidine (c) Diuretics (d) Antacids 62. The rate limiting step in cholesterol biosynthesis is one of the followings: (a) LDL-receptor concentration (b) VLDL secretion (c) Mevalonic acid formation 		(c) Polygalaceae	(d) Rubiaceae				
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56. Guggul lipids are obtained from (a) Commiphora molmol (b) Boswellia serrata (c) Commiphora wighti (d) Commiphora abyssinica 57. An example of N-glycoside is (a) Adenosine (b) Sinigrin (c) Rhein-8-glucoside (d) Aloin 58. One mg of Lycopodium spores used in quantitative inference of patients an average of (a) 94,000 spores (b) 92,000 spores (c) 90,000 spores (d) 91,000 spores 59. Select the correct combination of drugs for the treatment of patients suffering from Hepatitis C (a) Interferon with Ribavirin (b) Interferon with Zidovudine (c) Interferon with Stavudine (d) Interferon with Lamivudine 60. ALISKIREN acts by (a) Inhibiting the release of rennin (c) Inhibiting the action of adosterone 61. Digitalis toxicity is enhanced by co-administration of (a) Potassium (b) Quinidine (c) Diuretics (d) Antacids 62. The rate limiting step in cholesterol biosynthesis is one of the followings: (a) LDL-receptor concentration (b) VLDL secretion (c) Mevalonic acid formation (d) Co-enzyme A formation 		(a) Datura stramonium	(b) Erythroxylum coca				
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(c) Mevalonic acid formation (d) Co-enzyme A formation	62.		-				
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Visit - www.gdconlinetest.in Attempt 1 Free Demo Test Email : gdcgnat037@gmail.com		(c) Mevalonic acid formation	(d) Co-enzyme A formation				
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63. Which one of the following drugs is withdrawn f	rom the market due to <i>torsade de pointes</i>				
(a) Chlorpromazine	(b) Astemizole				
(c) Haloperidol	(d) Domperidone				
64. Ganciclovir is mainly used for the treatment of in	fection caused by				
(a) Cytomegalovirus	(b) Candida albicans				
(c) Herpes zoster virus	(d) Hepatitis B virus				
65. Identify the one rational combination which has	clinical benefit:				
(a) Norfloxacin – Metronidazole	(b) Alprazolam - Paracetamol				
(c) Cisapride – Omeprazole	(d) Amoxycillin - Clavulanic acid				
66. Stevens Johnson syndrome is the most common a	dverse effect associated with one ofthe following category				
of drugs					
(a) Sulphonamides	(b) Macrolides				
(c) Penicillins	(d) Tetracyclines				
67. Amitryptyline is synthesized from the following s	starting material				
(a) Phthalic anhydride	(b) Terephthalic acid				
(c) Phthalamic acid	(d)—Phthalimide				
68. The common structural feature amongst the t	hree categories of anti-convulsant drugs Barbiturates,				
succinimides and hydantoins is	ENTER				
(a) Ureide	(b) Imidazolidinone				
(c) Dihydropyrimidine	(d) Tetrahydropyrimidine				
69. Nicotinic action of acetykholine is blocked by the	e drug				
(a) Atropine	(b) Carvedilol				
(c) Neostigmine	(d) d-Tubocurarine				
70. Chemical nomenclature of procaine is					
(a) 2-Diethylaminoethyl 4-aminobenzoate					
(b) N,N-Diethyl 4-aminobenzoate					
(c) 4-Aminobenzamidoethyl amine					
(d) 4-Amino-2-diethylaminoethyl benzoate					
71. Barbiturates with substitution at the following pe	osition possess acceptable hypnoticactivity:				
(a) 1,3-Disubstitution	(b) 5,5-Disubstitution				
(c) 1,5-Disubstitution	(d) 3,3-Disubstitution				
72. Selective serotonin reuptake inhibitor is					
(a) Imipramine	(b) Iproniazide				
(c) Fluoxetin	(d) Naphazoline				
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73.	Proton pump inhibitors like omeprazole and lansop	razole contain the following ring System:				
	(a) Pyrimidine	(b) Benzimidazole				
	(c) Benzothiazole	(d) Oxindole				
74.	A metabolite obtained from Aspergillus terreus	that can bind very tightly to HMG CoAreductase				
	enzyme is					
	(a) Fluvastatin	(b) Cerivastatin				
	(c) Lovastatin	(d) Somatostatin				
75.	Cyclophosphamide as anticancer agent acts as					
	(a) Alkylating agent before metabolism	(b) Alkylating agent after metabolism				
	(c) Phosphorylating agent after metabolism	(d) DNA intercalating agent				
76.	Artemisinin contains the following group in its struc	ture				
	(a) An endoperoxide	(b) An exoperoxide				
	(c) An epoxide	(d) An acid hydrazide				
77.	Indicate the HPLC detector that is most sensitive to	change in temperature				
	(a) PDA detector	(b) Refractive Index detector				
	(c) Electrochemical detector	(d) Fluorescence detector				
78.	One of the following statements is NOT true	USSION				
	(a) Accuracy expresses the correctness of measure	ement E R				
	(b) Precision represents reproducibility of measure					
	(c) High degree of precision implies high degree of	accuracy also				
	(d) High degree of accuracy implies high degree of	precesion also				
79.	In thiazides following substituent is essential for diu	retic activity				
	(a) Chloro group at position 6	(b) Methyl group at position 2				
	(c) Sulphamoyl group at position 7	(d) Hydrophobic group at position 3				
80.	Streptomycin can NOT be given orally for treatment					
	(a) It gets degraded in the GIT	(b) it causes severe diarrhoea				
	(c) It causes metallic taste in the mouth	(d) it is not absorbed from the GIT				
81.		from absorption of UV radiation of wavelengths				
	lower than					
	(a) 350 nm (b) 200 nm	(c) 300 nm (d) 250 nm				
82.	Glass transition temperature is detected through					
	(a) X-Ray diffractometery	(b) Solution calorimetery				
	(c) Differential scanning calorimetery	(d) Thermogravimetric analysis				
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83.	In Gas-Liquid Chromatography, some of the	samples need to be derivatized in order to increase their					
	(a) Volatility	(b) Solubility					
	(c) Thermal conductivity	(d) Polarizability					
84.	Oxidative phosphorylation involves						
	(a) Electron transport system						
	(b) Substrate level phosphorylation						
	(c) Reaction catalyzed by succinic thiokinas	e in TCA cycle					
	(d) None of the above						
85.	Coulter counter is used in determination of						
	(a) Particle surface area	(b) Particle size					
	(c) Particle volume	(d) All of the above					
86.	Drugs following one compartment open mod	del pharmacokinetics eliminate					
	(a) Bi-exponentially	(b) Tri-exponentially					
	(c) Non-exponentially	(d) Mono-exponentially					
87.	The temperature condition for storage of dr	ug products under cold temperature is given As:					
	(a) Temperature between 8°C and 25°C	(b) temperature below 20°C					
(c) Temperature at 0°C (d) temperature between 2°C and							
88.	Many xenobiotics are oxidized by cytochron	ne P450 in order to					
	(a) Increase their biological activity						
	(b) Increase their disposition in lipophilic compartments of the body						
	(c) Increase their aqueous solubility						
	(d) All of the above						
89.	The following protein/polypeptide has a qua	aternary structure					
	(a) cc-Chymotrypsin	(b) Hemoglobin					
	(c) Insulin	(d) Myoglobin					
90.	Drugs in suspensions and semi-solid formul	ations always degrade by					
	(a) First order kinetics	(b) Second order kinetics					
	(c) Zero order kinetics	(d) Non-linear kinetics					
91.	In nail polish, following polymer is used as a	film-former					
	(a) Nitrocellulose	(b) Polylactic acid					
	(c) Hydroxypropyl methylcellulose	(d) Cellulose acetate phthalate					
92.	Rabies vaccine (living) is prepared using						
	(a) Sheep blood	(b) Mice lymph					
	(c) Horse plasma(d) Fertile eggs						
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93.	A drug (200 mg dose) ad	lministered in tablet for	m and as intravenous i	njection (50 mg dos	e) showed AUG
	of 100 and 200 microg	gram hr/mL, respectiv	vely. The absolute ava	ilability of the dru	g through oral
	administration is				
	(a) 125%	(b) 250 %	(c) 12.5%	(d) 1.25%	
94.	Geriatric populations sho	ould be included in the f	ollowing Phase of clini	cal trials	
	(a) Phase I	(b) Phase II	(c) Phase III	(d) Phase IV	
95.	Class 100 area is referre	ed to			
	(a) Manufacturing area		(b) Aseptic area	1	
	(c) Clean room		(d) Ware house		
96.	How many mL of a 1:50	0 w/v stock solution sh	ould be used to make	5 liters of 1:2000 w	/v solution
	(a) 750 mL	(b) 1000 ml	(c) 1250 mL	(d) 1500 mL	
97.	The Volume of distributi	on of a drug administer	ed at a dose of 300 mg	and exhibiting 30 i	microgram /mL
	instantaneous concentra	tion in plasma shall be			
	(a) 10 L	(b) 100 L	(c) 1.0 L	(d) 0.10 L	
98.	It is required to maintain	n a therapeutic concent	tration of 10 microgram	n/mL for 12 hourse	of a drug having
	half life of 1.386 hr and	Vd of 5 L. The dose req	uired in a sustained re	lease product will b	e
	(a) 600 mg	(b) 300 mg	(c) 30 mg	(d) 60 mg	
99.	Which one of the follow	ing is NOT an ex-officio	member of Pharmacy	Council of India	
	(a) The Director Genera	al of Health Services			
	(b) The Director of Cer	ntral Drugs Laboratory			
	(c) The Drugs Controlle	er General of India			
	(d) The Director of Pha	armacopoeia Laborator	У		
100). In which of the following	g techniques the sample	e is kept below triple po	oint	
	(a) Lyophilization		(b) Spray drying	g	
	(c) Spray congealing		(d) Centrifugation	on	
		End	of paper		
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31-d	32-d	33-с	34-a	35-с	36-d	37-с	38-a	39-a	40-a
41-a	42-d	43-с	44-b	45-d	46-d	47-d	48-b	49-a	50-b
51-d	52-d	53-с	54-a	55-d	56-c	57-a	58-a	59-b	60-b
61-b	62-c	63-b	64-a	65-d	66-a	67-b	68-a	69-d	70-a
71-b	72-с	73-b	74-с	75-b	76-a	77-b	78-с	79-с	80-d
81-a	82-c	83-d	84-a	85-d	86-d	87-d	88-d	89-b	90-с
91-a	92-d	93-с	94-с	95-b	96-с	97-a	98-a	99-d	100-a

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