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PHDURS-EE-2013

SUBJECT: Pharmaceutical Scs.

10093

		Sr. No
Time: 11/4 Hours	Max. Marks: 100	Total Questions: 100
Candidate's Name	Da	te of Birth
Father's Name	Mother's Name	
Roll No. (in figures)	(in words)	
Date of Examination		
(Signature of the Candidate)	-	(Signature of the Invigilator)

CANDIDATES MUST READ THE FOLLOWING INFORMATION/INSTRUCTIONS BEFORE STARTING THE QUESTION PAPER.

- 1. All questions are compulsory and carry equal marks.
- 2. All the candidates must return the question booklet as well as OMR Answer-Sheet to the Invigilator concerned before leaving the Examination Hall, failing which a case of use of unfair-means/misbehaviour will be registered against him/her, in addition to lodging of an FIR with the police. Further the answer-sheet of such a candidate will not be evaluated.
- 3. In case there is any discrepancy in any question(s) in the Question Booklet, the same may be brought to the notice of the Controller of Examinations in writing within two hours after the test is over. No such complaint(s) will be entertained thereafter.
- 4. The candidate must not do any rough work or writing in the OMR Answer-Sheet. Rough work, if any, may be done in the question booklet itself. Answers Should Not be ticked in the question booklet.
- Use black or blue ball point pen only in the OMR Answer-Sheet.
- 6. For each correct answer, the candidate will get full credit. Cutting, erasing, overwriting and more than one answer in OMR Answer-Sheet will be treated as incorrect answer. There will be No Negative marking.
- 7. Before answering the questions, the candidates should ensure that they have been supplied correct and complete booklet. Complaints, if any, regarding misprinting etc. will not be entertained 30 minutes after starting of the examination.

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1.	Which of the following plants is not used(1) Rheum officinale B.(3) Rheum emodi W.	d as (2) (4)	a drug ? Rheum rhaponticum L. Rheum webinum
2.	Which of the following plants may show (1) Digitalis purpurea (3) Raulwolfia	(2) (4)	ardiotonic action ? Cinchona bark Papaver somniferum
3.	Which of the following alkaloids, from activity'? (1) Ajmalicine (3) Serpentine	(2) (4)	nca roseus G. has reported antineoplastic Vincristine Tetrahydroalstonine
4.	What is the proper name of "Kalmegh"? (1) Boerhavia diffusa (3) Andrographis paniculata	(2) (4)	Curcuma longa Silybum marianum
5.	Convolvulus pluricaulis L. (Fam. Convo (1) Shatavari (3) Aswagandha	(2) (4)	Gurmar
6.	Which of the following is Potato starch 3(1) Zea mays L.(3) Triticum aestivum L.	? (2) (4)	Solanum tuberosum L. Oryza sativa L.
7.	Which of the following fibres is chiefly of (1) Wool (2) Flax	100	posed of the protein keratin ? Hemp (4) Jute
8.	Which of the following herbal drugs is u (1) Opium (2) Ginseng		as a counter-irritant? Capsaicin (4) Aconite
9.	Which of the following ayurvedic drugs (1) Rhubarb (2) Bael		Aloe (4) Senna
10.	The active constituent of which of the formula (1) Arachis hypogoea (3) Sesamum indicum	(2) (4)	ving plants is a volatile oil ? Linum usitatissimum Coriandrum sativum

11.		nich of the follow aromuscular junc		s is a select	ive a	antagonist of the	nic	otinic receptors at the
	(1)	Nicotine		59%	(2)	Succinylcholine		at .
	(3)	d-tubocurarine			(4)	Hexamethoniur	n	
12.	Wł	nich of the follow	ing drugs	s is an agor	ist o	f the muscarinic	rece	eptors?
	(1)	Bethanechol	(2) Pirer	nzepine	(3)	Telenzepine	(4)	Tripiṭramine
13.	Wh	nich of the follow	ing drugs	s is a dopar	nine	receptor agonist	t ?	
	(1)	Phenylephrine			(2)	Bromocriptine		
•	(3)	Clonidine			(4)	Terbutaline		
14.		nich of the follow mour formation l						reduction in aqueous y epithelium ?
	(1)	Pilocarpine	(2) Phys	ostigmine	(3)	Timolol	(4)	Epinephrine
15.	Wh	nich of the follow	ing drugs	s is a "loop	diur	etic" ?		
	(1)	Spironolactone			(2)	Hydrochlorthia	zide	2
	(3)	Furosemida			(4)	Mannitol		
16.	Wł	nich of the follow	ring ACE	inhibitors i	s no	t a pro-drug?		
	(1)	Captopril	(2) Enal	april	(3)	Ramipril	(4)	Trandolapril
17.		pulse to travel th						e time required for an ventricle, is known
	(1)	QRS - complex		*	(2)	T - wave		
	(3)	PR (PQ) interva	ıl		(4)	ST segment		
18.	Wh	nat is the desirab	le plasma	lipid level	s for	LDL-Cholestero	1?	
	(1)	< 200 mg / dL			(2)	< 130 mg / dL	50	
	(3)	>40 mg / dL			(4)	< 150 mg / dL		
19.	Wł	nich of the follow	ing drugs	s is a Hista	mine	-2 receptor anta	goni	ist?
	(1)	Triprolidine	30		(2)	Chlorpheniram	ine	
	(3)	Thioperamide			(4)	Famotidine		

20.). Which of the following drugs is a selective COX - 2 inhib	tor?
	(1) Indomethacin (2) Ibuprofen (3) Meloxicam	(4) Ketorolac
21.	. Which of the following drugs is a fast inducer intravenou	s anaesthetic?
	(1) Propofol (2) Diazepam (3) Lorazepam	(4) Midazolam
22.	Which of the following opioid analgesics has activity on delta) receptors?	all the three (mu, kappa and
	(1) Morphine (2) Etorphine (3) Fentanyl	(4) Methadone
23.	3. Which of the following is a hormonal male contraceptive	?
8	(1) Centchroman (2) Levonerges	rel S.c. implant
	(3) Depot medroxyprogesterone acetate(4) Testosteron	e undecanoate
24.	4. Which of the following insulin preparations has an orduration of 3-4 hours?	nset of 20 - 30 minutes, and
	(1) NPH insulin (2) Insulin lisps	0
	(3) Crystalline Zn insulin (4) Ultra-lente	nsulin
25.	5. The activity of warfarin is reduced by the concomitant drugs?	use of which of the following
	(1) Barbiturates (2) Aspirin (3) Metronidaz	ole (4) Phenytoin
26.	6. Which of the following bond types has an approximate s	trength of 40 -140 Kcal/mol?
	(1) Hydrophobic bond (2) Dipole - dip	
	(3) Hydrogen bond (4) Covalent bo	ond
27.	7. Which of the following anticholinesterases is a naturally	occurring molecule?
*	(1) Physostigmine (2) Neostigmin	e
	(3) Pyridostigmine (4) miotine	
28.	8. What would be the next compound in the following seri	es?
	L-Tyrosine L - Dopa L - Dopamine ??	??
	(1) L-Phenylamine (2) Isoprenalin	
	(3) L-Norepinephrine (4) L-Epinephr	
29.	 In a 5-aryl-1,4-benzodiazepine molecule, substitution v group at which of the following positions would re depressant activity' 	
	(1) Position 1 (2) Position 2 (3) Position 3	(4) Position 7
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30.	In a hydantoin molecule, when the folio	wing substituents are present:
	$R_3 = H, R_5 =$	$C_6H_5, R_5 = C_6H_5$
	the drug is commonly known as	
	(1) Phenyethylhydantoin	(2) Phenytoin
	(3) Mepherytoin	(4) Ethotoin
31.	What is the common name of 5-Ethyl-5-	1 mothyl hutyl) 2 thiobarbituric acid 2
31.	(1) Phenobarbitone	(2) Allobarbital
	(3) Hexobarbitone	(4) Thiobarbitone
		50 50 20
32.	7-(2-Hydroxy-ethyl) -1, 3-dimethylxanth	7
	(1) Theophylline	(2) Theobromine
	(3) Aminophylline	(4) Etophylline
33.	acetylated by a mixture of acetic anhyd	educed, and the resulting p-aming phenol is ride and glacial acetic acid; the crude product water :ethanol mixture (1 : 1), the resulting
	(1) Phenacetin	(2) Paracetamol
	(3) Acetanilide	(4) Aspirin
34.	of formaldehyde yields a Mannich base benzyl magnesium chloride to yield a designated as a α - and β -alcohol. Fract α -dl form which is subsequently resolv	ophenone and dimethylamine in the presence, which is subjected to grignardization with racemic mixture of the two diastereoisomers onal crystallization helps in the separation of ed by d-camphor-sulphonic acid to obtain the with propionic acid in the presence of owing compounds?
	(1) Fentanyl	(2) Pethidine
	(3) Dextropropoxyphene	(4) Morphine
35.	2-(2,6-Dichloroanilino)-2-imidazoline h	drochloride is popularly known as:
	(1) Hydralazine (2) Clonidine	(3) Diazoxide (4) Methyldopa
36.	The addition of propylene chlorohydacetic anhydride would yield which of	rins to trimethylamine, on acetylation wit the following compound?
20	(1) Carbachol	(2) Bethanechol
	(3) Methacholine	(4) Pilocarpine

37.	2-[(2,6-dichlorophenyl)amino]-Benzene-	-acet	ic acid is commonly known as :
	(1) Ibuprofen	(2)	Diclofenac
	(3) Ketoprofen	(4)	Indomethacin
38.	reduction, aniline is obtained. Upon treand chlorination with phosphorous	eatm pent	ric acid in presence of sulphuric acid. On tent with hot concentrated sulphuric acid, achloride gives a compound, which on lution, will yield which of the following
	(1) Sulphanilamide	(2)	Sulphathiazole
	(3) Sulphadiazine	(4)	sulphadimidine
39.	2, 4-Diamino-5-(p-chlorophenyl)-6-ethy	lpyr	imidine is commonly known as:
	(1) Proguanil	(2)	Mepacrine
	(3) Amodiaquine	(4)	Pyrimethamine
40.	Treatment of p-aminophenyl butyric hydroxyethyl) amino] phenyl butyrichloride will yield which of the following	c ac	d with ethylene oxide yields 4-[p-[Bis(2-id, which on chlorination with thionyl nti-cancer compounds?
	(1) Busulfan	(2)	Chlorambucil
	(3) Mephalan	(4)	cyclophosphamide
41.	Which of the following preservatives h	as ar	n antifungal action ?
	(1) Methylparaben	(2)	Benzalkonium chloride
	(3) Cetylpyridinium chloride	(4)	Phenol
42.	Which of the following sweeteners is has a same calorific value?	180	- 200 times more sweet than sucrose, and
	(1) Glucose (2) Sorbitol	(3)	Saccharine (4) Aspartame
43.	The general purpose soda -lime class i glass types ?	s ca	tegorised as which of the following official
	(1) Type I (2) Type II	(3)	Type III (4)NP
44.	What is the increase in the surface are from 1 mm to 10 microns?	a of	the powder by decreasing the particle size
	(1) 10 times	(2) 100 times
	(3) 1000 times	(4) 10000 times

45.	15. How many milligrams of aspirin can appropriate gelatine capsule, of size 0 ?	oximately be filled	d in an empty hard
	(1) 260 mg (2) 325 mg (3) 52	20 mg (4)	650 mg
46.	46. Which of the following statements is <i>not true</i> ?)	
	(1) Molecules having one polar functional gralengths of five carbon atoms	roup are usually s	soluble to total chain
2	(2) Molecules having branched chains are straight chain compounds.	more soluble tha	n the corresponding
	(3) Water solubility increases with an increase	e in molecular wei	ght .
	(4) Increased structural similarity between sincreased solubility	solute and solven	t is accompanied by
47.	47. Clear, sweetened, hydroalcoholic solutions int	ended for oral use	are called
	(1) Syrups (2) Elixirs (3) T	inctures (4)	Magmas
48.	48. What is the desired HLB value for a substance	to exert its anti-fo	aming activity?
	(1) 1 to 3 (2) 3 to 6 (3) 7	to 9 (4)	8 to 18
49	49. Which of the following properties is a colligati	ive property?	
	Ŭ, .	light refraction	*
		nterfacial property	
50	50. How many milliequivalents of potassium ch		
	mg/ml?		
	(1) 1 (2) 2 (3) 3	(4)	4
51	51. Which, amongst the following, is not an ex-o of India?	officio member of I	the Pharmacy Council
	(1) Director General of Health Services		
	(2) Director of Central Drugs Laboratory		
	(3) Drugs Controller of India	2.45	
	(4) Chairman, All India Council for Technica	l Education	
52	52. Through which place can a drug be importe with Bangladesh?	ed into India, by r	ail, across the frontier
	(1) Ferozpur cantonment (2) I	Ranaghat	e e
	(3) Calcutta (4) A	Amritsar	
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- 53. Which of the following schedules (to the Rules under the Drugs & Cosmetics Act) refers to the "list of substances that are required to be used only under medical supervision and which are to be labelled accordingly"?
 - (1) Schedule C
- (2) Schedule D
- (3) Schedule G
- (4) Schedule H
- **54.** Which of the following words does not appear in the official definition of "drugs" in India?
 - (1) Prevention
- (2) Mitigation
- (3) Diagnosis
- (4) Cure
- **55.** What is the punishment for an offence related to cultivation of any coca plant or gathering any portion of a coca plant?
 - (1) Rigorous imprisonment up to 6 months or fine up to Rs. 10,000 or both
 - (2) Rigorous imprisonment up to 10 years or fine up to Rs. 1 lakh
 - (3) Imprisonment up to 3 years and fine up to Rs. 5000
 - (4) Imprisonment for 2 to 4 years or fine of not less than Rs. 5000 or both
- **56.** What is the license fees for manufacture of medicinal preparations containing alcohol by hospitals & dispensaries?
 - (1) Rs. 100 for less than 4000 L.P. per annum
 - (2) Rs. 200 for more than 4000 L.P. per annum
 - (3) Rs. 25 per annum
 - (4) No fees is payable
- **57.** Which of the following advertisements is prohibited under the Drugs & Magic Remedies Act?
 - (1) A signboard displayed by a RMP indicating that treatment for hypertension is undertaken
 - (2) A signboard displayed by a RMP indicating that guaranteed treatment for hypertension is undertaken
 - (3) A signboard displayed by a RMP indicating that treatment for cancer is undertaken
 - (4) A signboard displayed by a RMP indicating that treatment for AIDS is. undertaken
- 58. Which of the following is non-patentable, as per the latest Indian Patents Act, 1970?
 - (1) A genetically modified microorganism
 - (2) A new method of cardiac by-pass surgery
 - (3) A novel machine for recording of ECG
 - (4) A novel method of extraction from a known plant drug

59.	What is the duration 1970?	n of patent protection	on period, under late	st the Indian Patents Act,
	(1) 7 years	(2) 14 years	(3) 15 years	(4) 20 years
60.	What is the maximu Act'?	um shelf life (in mon	ths) permissible und	er the Drugs & Cosmetics
	(1) 24 months	(2) 36 months	(3) 48 months	(4) 60 months
61.	In fluorimetry, the	wavelength of the en	nitted light is	that of the incident light:
	(1) Always greater	than	(2) Always lesser t	than
	(3) Always equal	0	(4) Greater than or	r lesser than
62.	as a monochromato (1) Glass (2) Silica (3) Plastic	or:	a prism made of the f	following material, is used
63.	metallic sodium. To cooled and then Si few drops of Carbo mixture is shaken	he sodium extract is lver nitration solution on tetrachloride and	ac.dified with an ex on is added. To the a a few ml of chlorine ganic solvent layer t	compound is fused with cess of nitric acid, heater, cidified sodium 'extract, a water are added, and the turns brown, which of the
	(1) Chlorine		(2) Iodine	
	(3) Bromine		(4) None of the ab	pove
b4.	solution is added	drop by drop until of iodoform possess	the yellow colour of	f iodine, and the KCH iodine just disappears, a dour is obtained. This test
	(1) Phenol	(2) Glycerol	(3) Methanol	(4) Ethanol
65.	Which of the follow	ving carboxylic acids	s is a liquid ?	
	(1) Benzoic acid	(2) Phthalic acid	(3) Lactic acid	(4) Cinnamic acid
66.	flame, with the he	elp of a platinum w	kamination is introd ire. A yellow colour following metals, in t	uced into a non-luminous flame is seen. This test is he material ?
	(1) Barium	(2) Sodium	(3) Calcium	(4) Potassium

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67.	Which of alkalimetry		ng substances	can	be used	as a pr	rimary stan	ndard for	ſ
	(1) Potassii	ım acid phtl	nalate	(2)	Benzoic ac	cid ,			
	(3) Oxalic a	icid dihyrate	2	(4)	Potassium	acid chr	omate		
68.	Which of the	e following s	olvents does no	ot doi	nate or acce	ept proto	ns?		
	(1) Water	(2)	Benzene	(3)	Alcohol	(4)	Acetic acid		
69.	Acetic acid v	vill act like a	strong acid in	whic	h of the foll	lowing so	olvents?	9	
	(1) Anhydro			(2)	Water	O			
	(3) DMF	1		(4)	All of the	above			3
70.	In an acidic carbon in H ₂		alic acid (H ₂ C ₂ 0	O ₄) is	oxidised t	to CO ₂ . V	Vhat is the v	valency o	f
	(1) 1	(2)	2	(3)	3	(4)	4	8	
71.	Which of the hepatitis?	e following	principal serum	enz	ymes is use	ed in clin	ical diagnos	sis of vira	l
	(1) SGOT	(2)	SGPT	(3)	Lipase	(4)	Amylase		
72.	Pantothe nic	acid is a con	nponent of which	ch of	the followi	ng B vita	mins?		
	(1) NAD+	(2)	FAD	(3)	TPP	(4)	CoA		
73.	Which of the	e following v	ritamins is also	knov	vn as Antis	terility Fa	actor?		
	(1) Vitamir	n A (2)	Vitamin D	(3)	Vitamin E	(4)	Vitamin K		
74.	What is the conditions?	total num	ber of ATPs g	enera	ated per n	nol of gl	ucose, unde	er aerobio	2
	(1) 38	. (2)	36	(3)	32	(4)	24		
75.	Which of the	e following i	s an "essential"	amin	o acid?				
	(1) Alanine	(2)	Asparagine	(3)	Glutamine	e (4)	Lysine		
76.	Which of the	e following i	s "not" a purine	nucl	eoside?				
	(1) Adenos	ine (2)	Guanosine	(3)	Uridine	(4)	Inosine		
77.	(1) Alpha-1(2) Beta lin(3) Alpha -	l-4 glycosidi kages in cell 1-6 bonds lii	es the specific he bonds in glycoulose nking the gluco	ogen se un	its of malto	ose	e following l	oonds?	*

78.	and one or two drops of phenol red inc	dicat	ean meal is mixed with the urine sample, for are added. Upon mixing and allowing lour changes to red. This test is used for
	(1) Calcium (2) Urease	(3)	Uric acid (4) Creatinine
79.	The enzyme nomenclature" 1.1.1.1." refe (1) Glutamic dehydrogenase (3) Alcohol dehydrogenase		which of the following enzymes? Catalase Phosphorylase
80.	Which of the following is not true for Gl (1) Branching occurs after every 10-12 g (2) It forms an opalescent solution in w (3) It gives brown to red colour with io (4) It consists of amylase and amyloped	glucc ater dine	ose units
81.	Which scientist was the first one to dilutions in liquid media?	obtai	in pure cultures of bacteria, sing serial
	(1) Louis Pasteur	(2)	Joseph Lister
	(3) Robert Koch		Edward Jenner
82.	Which of the following microscopic tecand the ultrastructure of microbial cells		ue can be used for examination of viruses
	(1) Dark - field microscopy	(2)	Fluorescence microscopy
	(3) Phase - contrast microscopy	(4)	Electron microscopy
83.	Which of the following components moving the weight of the wall of some of the gram (1) Peptidoglycan (3) Teichoic acids	posi (2)	account for 50 percent or more of the dry tive bacterial species ? Polysaccharides Mycolic acids
84.	Which of the following bacteria wou approximately 25 to 40° C?	ld g	grow best within a temperature range of
	(1) Psychrophiles	(2)	Mesophiles
	(3) Thermophiles	(4)	All of the above
85.			a chain terminating codon in mRNA, rotein formation, during translation, it is
	(1) Missense mutation	(2)	Neutral mutation
	(3) Deletion mutation	(4)	Nonsense mutation
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86.	'In fungi, the single - celled spores, whi	ch are formed within sacs are called:
	(1) Sporangiospores	(2) Conidiospores
	(3) Chlamydospores	(4) Blastospores
87.	What is the typical diameter of viruses	?
	(1) 1000 - 3000 nm	(2) 150 -1000 nm
	(3) 250 -400 nm	(4) 10 - 300 nm
88.	Which of the following temperature we per sq. inch, in moist heat sterilization?	would correspond to a steam pressure of 15 Ib?
	(1) 100° C (2) 115° C	(3) 121.5° C (4) 126.5° C
89.	Which of the following microorganism alcohol by fermentation?	ms was commercially used for production of
	(1) Enterobacter aerogenes	(2) Saccharomyces cerevisiae
*	(3) Aspergillus niger	(4) Penicillium chrysogenum
90.	Which of the following vaccines is "killed	ed Virus" Vaccine ?
	(1) Salk Polio Vaccine	(2) Sabin Polio Vaccine
	(3) Rabies Vaccine	(4) Small Pox Vaccine
91.	Which of the following pharmacokin urinary data alone?	etic parameters cannot be determined, using
	(1) K (2) AUC	(3) $t_{1/2}$ (4) V_D
92.	Which of the following phases of clinical	al trials is not official in India ?
92.	Which of the following phases of clinical (1) Phase zero (2) Phase I	al trials is not official in India ? (3) Phase 2 (4) Phase 3
92. 93.	(1) Phase zero (2) Phase I	(3) Phase 2 (4) Phase 3 g, at the end of 7 biological half lives, when the
	(1) Phase zero (2) Phase I What is the percent remaining of a drug	(3) Phase 2 (4) Phase 3 g, at the end of 7 biological half lives, when the
	(1) Phase zero (2) Phase I What is the percent remaining of a drug drug is administered as a single oral do (1) 3.125 (2) 1.56 Drug products which contain the sam (i.e., same salt or ester or chemical for	(3) Phase 2 (4) Phase 3 g, at the end of 7 biological half lives, when the ose, to a healthy human volunteer? (3) 0.78 (4) 0.39 ne amount of the same active drug ingredient rm), but contain different inactive ingredients, ality, and purity, as well as content uniformity,
93.	(1) Phase zero (2) Phase I What is the percent remaining of a drug drug is administered as a single oral do (1) 3.125 (2) 1.56 Drug products which contain the sam (i.e., same salt or ester or chemical for and which are identical in strength, quantum strength, qu	(3) Phase 2 (4) Phase 3 g, at the end of 7 biological half lives, when the ose, to a healthy human volunteer? (3) 0.78 (4) 0.39 ne amount of the same active drug ingredient rm), but contain different inactive ingredients, ality, and purity, as well as content uniformity,

95.		, but poor membrane permeability, would be lowing classes, under Biopharmaceutical
	(1) BCS Class I	(2) BCS Class II
	(3) BCS Class III	(4) BCS Class IV
96.	Which of the following Phase II metabothe drug moiety or the conjugate moiety	lic reactions do not require prior activation of ?
	(1) Glucouronide conjugation	(2) Acetylation
	(3) Glutathione conjugation	(4) N-methylation
97.		d 99 percent of the steady state concentration Iministered as a slow IV infusion, to healthy
	(1) 3.00 (2) 3.32	(3) 4.32 (4) 6.65
98.	What is the normal value of creatinine of	learance in humans?
	(1) 60-80 ml/min	(2) 80-100 ml/min
	(3) 100-120 ml/min	(4) 120-140 ml/min
99.	For a simple drug, exhibiting linear ph the t_{max} when the oral dose of the drug	armacokinetics, what would be the change in is doubled?
	(1) t_{max} reduced to half	(2) t_{max} remains unchanged
	(3) t_{max} is doubled	(4) t_{max} is tripled
100.	Which of the following drug transport bidirectional in nature?	mechanisms, across a biological membrane, is
	(1) Passive diffusion	(2) Facilitated diffusion
	(3) Active transport	(4) Pinocytosis