Pharmacology III Date: 15/5/2016 of Pharmacy **Final Exam** Time: 120 minutes I; Multiple choice questions, circle the correct answer (60 pts.) preotide is a long acting synthetic analogue of: Prolactin. Pharmacology III b) Growth hormone. dr mahmoud taleb Somatostatin. Gonadotropin releasing hormone. final 2016 e) Vasopressin. Which of the following drug(s) can precipitate hypoglycaemia if given to a diabetic controlled with a sulfonylurea drug: a) Phenobarbitone. b) Rifampicin. c) Chloramphenicol. d) a and b. e) b and c

Select the anticonvulsant drug that acts as a GABAtransaminase inhibitor:

- a) Gabapentin.
- b) Vigabatrin.
- c) Lamotrigine.
- d) Topiramate.
- e) Tiagabine.

Which of the following classes of glucose-lowering agents has the ability to reduce insulin resistance?

- a) α-glucosidase inhibitors.
- b) DPP-IV inhibitors...
- c) Meglitinides.
- d) Sulfonylureas.
- e) Thiazolidinediones.

5. The most dangerous adverse effect by using Fentanyl Patches is :

- a) Diarrhea.
- Relaxation of respiratory muscles.
- c) Hypertension.
- d) Respiratory depression.

6. Metformin acts by:

- a) Releasing insulin from pancreas.
- Suppressing gluconeogenesis and glucose output from liver.
- c) Up regulating insulin receptors.
- d) a and b statements are correct.
- e) b and c statements are correct.

7. Antithyroid drugs exert the following action:

- a) Inhibit thyroxine synthesis.
- Block the action of thyroxine on pituitary.
- Block the action of TSH on thyroid.
- d) Block the action of thyroxine on peripheral tissues.
- e) All of the above.

8. The most important side effects of radioactive iodine is / are :

- a) Subsequent hypothyroidism in many patients.
- b) Metalic taste in mounth.
- c) Increase blood pressure.
- d) a and b statement are.
- e) All of the above.

9. Insulin causes reduction in blood sugar level by the following mechanisms, EXCEPT

- a) Increased glucose uptake in the peripheral tissue.
- b) Reduction of breakdown of glycogen.
- c) Diminished gluconeogenesis.
- d) Decreased glucose absorption from the gut .
- e) c and d statements.

10. The primary objective for designing drugs that selectively inhibit COX - 2 is to

- a) Decrease the risk of nephrotoxicity
- b) Improve anti-inflammatory effectiveness
- c) Lower the risk of gastrointestinal toxicity
- d) Reduce the cost of treatment of rheumatoid arthritis

nich of the following are not treated with Dexamethasone?	Name and April 1984 of the April 2012
mich of the following are not treated	A Property of Land Co.
a) Inflammation	count more part 2 and of the
Asthma	
Addison's disease	A STATE OF THE PARTY OF THE PAR
Wilson's disease Wilson's disease Wilson's disease Wilson's disease Wilson's disease Wilson's disease Wilson's disease	omethorphan and
which of the following are not treated with opon and gent	
done)?	
a) Pulmonary Edema	
b) Cough suppression	

c) Sedation d) Pain

Reye's syndrome, a potentially fatal illness associated with liver failure and encephalopathy is sociated with the administration of which over-the-counter (OTC) medication?

- a) Acetaminophen (Tylenol)
- b) Ibuprofen (Motrin)
- c) Aspirin
- d) chlorompheniramine/psudoephedrine (Dimetapp)

Which of the following adverse effects is associated with levothyroxine (Synthroid) therapy?

- a) Tachycardia
- b) Bradycardia
- c) Hypotension
- d) Constipation

Which of the following statements about morphine is correct?

- a) It is used therapeutically to relieve pain caused by severe head injury.
- b) Its withdrawal symptoms can be relieved by naloxone.
- c) It causes diarrhea.
- d) It is most effective by oral administration.
- e) It rapidly enters all body tissues, including the fetus.

of the following NSAIDs propionic acid I der		
beprofen.	rrative?	
Indomethacin.	A series in the second	
Kenrolac	And the second s	
Diclofenac.	The state of the s	
Piroxicam.		
following statements regarding Aspirin are tr		
In contrast to most other NSAIDs, aspirin irrev	ue EXCEPT	
d Aspirin inhibits platelet aggregation.	ersibly inhibits COX.	
t reduces elevated body temperature and it is u	Mr. AUTOMORPHS Procedure of the Control of the Cont	
Moderate doses of aspirin may cause saliculi	sed as antipyretic for children.	
hincrease oxygen consumption and increase	(vomiting, tinnitus, decreased hearing, and vertigo).	
hincrease oxygen consumption and increase produit nations who has increased 10	oduction of CO2 thus it may induce asthma.	
adult patient who has ingested 10 gm acetami	nophen 6 hours ago should be treated by	
Activated charcoal	and the second section of	
N-acetylcysteine	the state of the s	
4 Glutathine		
¢ EDTA	and the same and t	
Erstroft.	ALLEGIS WARRING COLOR RES	
idronate disodium is an agent primirly indicate a) Meniers syndrome	d for the treatment of	
b) Osteoporesis		
Crohns disease	244	
d) Parkinsons disease.		- 20
Treath need	1 1015	
areathy used alpha glucosidase inhibitors incl	ude all of the following except:	
b) Miglitol		
t) Pramlintinide		
() Voelsha		
hich of the con	POW AND	
Tollowing drugs exerts its antiseizu	re effect by inhibiting central effects of excitator;	y
i) Ethon		
Ethosuxomide Diazepam		
c) Lamotrigine		
1) Tiagbine		
Bothe		

16. Acetaminophen has been used as a safe and effective analgesic/ antipyretic agent for over 80 ye Since it may be purchase without a prescription, it is readily available and as such the recommended may be exceeded. The primary toxicity leading to death from an acetaminophen overdose is:

- a)papillary necrosis and chronic interstitial nephritis
- b) pancytopenia
- c)hepatocellular necrosis
- d) hemolytic anemia

17. The most specific agent for treatment of petit mal epilepsy is:

- a) Carbamazepine
- b) Phenytoin
- c) Gabapentin
- d) Ethosuximide
- e) Primidone

18. The release of ADH is suppressed by which of the following drugs to promote a diuresis?

- a) Amlodipine
- b) Acetozolamide
- c) Chlorothiazide
- d) Water

19. The following thyroid inhibitor interferes with peripheral conversion of thyroxine to triiodothyronine: a) Propyl thiouracil.

- b) Carbimazole
- c) Methimazole.
- d) Radioactive iodine.
- e) All of the above.

20. Advantages of paracetamol over aspirin include all of the following EXCEPT

- a) No alteration of bleeding time
- b) Greater anti-inflammatory activity
- c) No occult blood loss d) No appredictable effect on uric acid exceretion
- e) Less gastric irritation

27. Glitazones:

- azones:

 a) Decreases insulin resistance and increase glucose uptake and metabolism inmuscle and activities.
- b) Reduce the absorption og glucose from gut.
- c) Stimulates the B cells of the pancrease to produce insulin.
- d) All of the above.

28. The following antiepileptic drug is associated with weigh loss:

- a) Valproate
- b) Tiagabine
- c) Pregabalin
- d) Topiramate

29. The most common dose related side effects of carbamazepine are:

- a) Nausea, diplopia and ataxia.
- b) Gingival hyperplasia, hirsuitism
- c) Sedation, physical and psychological dependence.
- d) Hpernatremia, absence seizures

30. The following antipsychotic has strong H1 antihistaminic activity:

- a) Quetapine
- b) Chloropromazine
- c) Olanzepine
- d) All of the above

31. Which of the following drugs produce inactivation of voltage- gated sodium channels:

- a) Carbamezepine
- b) Lamotrigine
- c) Phenytion
- d) A and C
- e) All of the above

32. Which of the following drugs is not paired to the correct mechanism of action

- a) Levitriacetam- bind to synaptic vesicular protein and modulate the release of glutamate
- b) Tiagabine- inhibits GABA reuptake
- c) Primidone- enhance GABAergic transmission
- d) Lamotrigine- inhibits GABA transmission.

hich of the following antiepliptic drugs can be used for myoclonic seizur	res: Service Service P
1) Cabipanian	A THE RESIDENCE TO STATE OF THE PARTY OF THE
b) Ethosuxomide	
d) Caroamazepine	
hich of the following antipsychotic drugs is used as good choice in mana	gement of psychosis in obese
rly patient with pankinsonian diseas:	gement of payenosis in opese
a) Clozapine	
b) Haloperidol	
e) Olanzepine	
N. Aphacount account	
nobese patient with major depressive disorder stopped fluoxetine, due in	the state of the s
section, which one of the following drugs is a good alternative:	
a) Mirtazepine.	14 1 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
b) Doxepien.	A CONTRACTOR AND A CONT
c) Imipramine	The second second
d) Bupropion	The feet being the party of
Apizide:	and the same of the same
a) Should be used to control ketoacidosis in patent with type 2 diabetes.	
b) Requires the presence of insulin containing B- cells in the pancrease to	and the same
c) Unlike tolbutamide, doesnot cause hypoglycemia.	2500
	Andread the state of
37. Withdrawal of antiscizure drugs can cause increased seizure frequen	THE RESERVE OF THE PARTY OF THE
a) Clonazepam	THE PART OF BUILDING BE
b) Diazepam	2 Paright Doub
c) Ethosuximide	Marines V. 18
d) Phenobarbital	
e) Phenytoin	the state of the state of
Which one of the following statements about phenytoin is accurate?	the state of the s
a) Displaces sulfonamides from plasma proteins	100 Per 1077
b) Drug of choice in myoclonic seizures	Windshift in
c) Half-life is increased if used with phenobarbital	and the second of the
d) Isoniazid (INH) decreases steady state blood levels of phenytoin	

		one of the following statements about vigabatrin is accurate?
39	Which	one of the following statements about 1 a
-		total of GABA

- a) Blocks neuronal reuptake of GABA
- b) Drug of choice in absence seizures
- c) Is established to be teratogenic in humans
- d) Life-threatening skin disorders may occur

40. Which one of the following statements about the action of phenothiazines is accurate?

- a) They activate muscarinic receptors
- b) They are antiemetic
- c) They decrease serum prolactin levels
- d) They elevate the seizure threshold

41. The insulin preparation of choice indiabetic ketoacidosis is

- a) Regular insulin
- b) Lente insulin
- c) Isophane insulin
- d) Monocomponent insulin

42. Atypical antipsychotics differ from the typical agents in various ways that define them as atypical. Which of the following is not a defining property of the atypical antipsychotics?

- a) Sustained hyperprolactinemia
- b) Improved efficacy in treating the negative symptoms
- c) Lower risk for extrapyramidal symptoms (EPS)
- d) Greater serotonin receptor blockade than dopamine blockadege

43. Which of the following atypical antipsychotics would be the least sedating?

- a) Quetiapine
- b) Risperidone
- c) Olanzapine
- d) Clozapine

44. Which of the following medications would most likely exacerbate a preexisting seizure disorder

- a) Venlafaxine
- b) Trazodone
- c) Bupropion
- d) Paroxetine

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few extrapyramidal side e	ffects
eceptor blocking activity	4
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	ing agents, except few extrapyramidal side exceptor blocking activity

of the following insulins can be administered intravenously? Regular insulin Isophane insulin (NPH) Protamine zine insulin (PZI) Semilente insulin Ultralente insulin of the following compounds is incorrectly matched with one of its therapeutic uses? Raloxifene: Advanced breast cancer Metformin: Non-insulin dependent diabetes mellitus (NIDDM) e) Finasteride: Benign prostatic hyperplasia d) Propylthiouracil: Hyperthyroidism e) Tamoxifen : Estrogen-dependent breast The insulin receptor is a b) lon channel regulating receptor e) Tyrosine protein kinase receptor d) G-protein coupled receptor e) None of these arbimazole acts by inhibiting a) lodide trapping b) Oxidation of iodide c) Proteolysis of thyroglobulin d) Synthesis of thyroglobulin protein be resorption is accelerated by a) Estrogens b) Parathormone c) Bisphosphonates d) Calcitonin dicate an antiscizure drug, which has an effect on the T-type calcium channels in thalamic

- a) Carbamazepin. b) Lamotrigine.
- c) Ethosuximide.
- d) Phenytion

51. 0	lucocorticoids have not been proved to be effective in the treatment of	
	a) Acute lymphocytic leukemia	
	b) Addison's disease	
-	c) Asthma	-
	d) Chemotherapy-inhduced vomiting	
	e) Osteoporosis	
52. S	ymptoms of hypothyroidism (myxedema) do not include	
	a) Dry, puffy skin	
	b) Increased appetite	
	c) Large tongue and drooping of the eyelids	
	d) Lethargy, sleepiness	
	e) Slow heart rate	CH ST.
53. V	which of the following drugs is most likely to cause hypoglycemia when used	as monotherapy
	ment of type 2 diabetes?	
	a) Acarbose	
	b) Glyburide	
	c) Metformin	
	d) Miglitol	
	e) Rosiglitazone	from panerratic
54. V	which of the following classes of compounds stimulates the release of insulin	Irom paner
	a) Progestins	
	b) Diguarioes	
	c) a-Glucosidase inhibitors	
	d) Thiourylenes	
	e) Sulfonylureas	
55. V	c) Sulfonyineas which of the following glucocorticoids produces the least sodium retention?	The same of
	a) Cortisone	
	b) Hydrocortisone	
	c) Prednisolone	
	d) Dexamethasone	
	e) Fludrocortisone	

Question No. II True or false. Please, state which statement is true and which is false and correct the false. (20 pts.)) Varenicline is full agonist at Nn receptor in CNS and it produces more euphoric effects the those produced by nicotine itself) Naloxone is used to reverse respiratory depression of morphine toxicity and it is given by h 2. () Tramadol is a weak Kappa receptor agonist and used in management of moderate pain 3. () Loperamide act as agonist on Mu receptor in gastrointestinal tract to decrease peristalsis, to i be used for treatment of ulcerative colitis. can) Mifepristone blocks cortisol synthesis by inhibiting steroid 11 beta - hydroxylase.) Cortisone is secreted in response to ACTH from the posterior pituitary and is suppressed by negative feedback.) Hashimotos thyroiditis is an autoimmune disease in which the thyroid gland is attacked by antibodies.) Epilepsy can be due to Genetic, CNS infection, high fever and an unknown cause.) Phenytoin inhibits the electrical excitability of neurons via blocking Ca channels.) Carbamazepine has several side effects as gingival hyperplasia, diplopia and hirsutism. 10. () Gabapentin enhance GABA release but pregabalin bind to Ca channel and inhibit excitatory 11. (NTs.) Insulin Glargine is long acting insulin analogue in which a fatty acid bound to the lysine and 12. (acid at position B29.) Sitagliptin stimulate Dipeptidyl peptidase-4 enzyme so increase Glucagon like peptide (GLP) 13. (and Gastric inhibitory peptide (GIP) leading to increase insulin secretion.) Rosiglitazone increase risk of coronary heart disease and heart attacks but pioglitazone

14. (

cause bladder cancer.

- Acarbose act by delaying the diagestion of carbohydrates by inhibit alpha glucosidase enzyme small intestine which responsible for hydrolysis of carbohydrates.
- pramlintide is a new adjunct for diabetes type I and type II who used insulin to allow patients to use less insulin and decrease postprandial hyperglycemia.
- Physiological doses of glucocorticoids can result in increased gluconeogenesis, lipolysis and elevation of red blood count.
- Pigvisomant is analogue of growth hormone that is used for treatment of GH deficiency in children.
-) For a patient suffering from both generalized and tonic clonic seizures and absence seizures, we can use ethosuximide.
-) Use of desmopressin in treatment of diabetes insipidus has been largely replaced by vasopressin.
-) All the typical antipsychotic agents have antiemetics effects that are mediated by blocking D2 receptors of CTZ of the medulla.

Drug	tion , clinical uses and limita Mode of action	Clinical uses	Limitation
1- Thioredazine	App by the same of	COMMINISTE A TE	
			705
2-Meloxicam		20.5 Sept. 100 100 100 100 100 100 100 100 100 10	Zani.
		and the second of	
3-Methotrexate			
V			
4- Allopurinol			
			4
5- Methadone			1

Flu dro					
poglutethemide					
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Maglibtin					
bild					

0- Demoxytocin	- 1.8		
11-Rosiglitazone			
12-Calcitonin			
13-Potassium iodide			
14-Refocoxib			