

2021 فبراير Pharmacology exam for MSc in pediatric

Tanta University

Pharmacology Written Examination

Faculty of Medicine

Number of Questions: 40 MCQs

Pharmacology Department

Time Allowed: 1 Hour

Date 20/2/2021

Total: 60 Marks



Answer all of the following MCQs: 60 marks

- ١- Which drug-binding receptors cause rapid depolarization or hyperpolarization of cells?
 - a. Receptors that have enzyme activity on their cytoplasmic side.
 - b. Intracellular nuclear receptors.
 - c. Ligand-gated ion channels.
 - d. G protein-linked receptors.

- ٢- Which is NOT a disadvantage of administering a drug intravenously?
 - a. Possible hematoma formation.
 - b. Accidental intra-arterial injection.
 - c. Production of immediate drug effects.
 - d. Toxic drug reactions are difficult to reverse.

- ٣- Which term is defined as a genetically related uncharacteristic response to a drug?
 - a. Allergy.
 - b. Toxicity.
 - c. Side effect.
 - d. Idiosyncratic reaction

- ٤- Which of the following drugs is given in acute attack of malignant hyperthermia?
 - a. Atropine.
 - b. Adrenaline.
 - c. Diazepam.
 - d. Dantrolene.

- ٥- Which condition can be treated by targeting dopamine receptors in the periphery?
 - a. Diabetes.
 - b. Whooping cough.
 - c. Cardiogenic shock.
 - d. Skeletal muscle pain.

- ٦- Which adrenergic receptor antagonist forms covalent bonds with receptors?
 - a. Prazosin.
 - b. Tamsulosin.
 - c. Phentolamine.
 - d. Phenoxybenzamine

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- c. Increased inhibition of white blood cell production.
d. Decreased production of prostaglandins and leukotrienes..
- ١٥- **Which is an example of a long-acting insulin preparation?**
a. Insulin glulisine (Apidra).
b. Insulin detemir (Levemir).
c. Insulin lispro protamine/insulin lispro (Humalog).
d. Regular human insulin injection (Novolin R).
- ١٦- **Glucagon increases blood glucose levels by all means EXCEPT which?**
a. Decreases glycogenesis.
b. Stimulates glycogenolysis.
c. Increases gluconeogenesis in the liver.
d. Breaks down glycogen in skeletal muscle.
- ١٧- **Which drug group has the least effect on the immune system?**
a. Tetracycline.
b. Glycopeptide.
c. Aminoglycoside.
d. Fluoroquinolone –
- ١٨- **Time-dependent killing of bacteria is most characteristic of which drug or drug class?**
a. Metronidazole.
b. Fluoroquinolones.
c. Aminoglycosides.
d. Penicillins
- ١٩- **Complications of aerosol steroids use include**
a-Oral candidiasis.
b-Cushing's syndrome.
c-Decreaed ACTH.
d-Systemic complication .
- ٢٠- **Corticosteroids are the definitive treatment for which emergency situation?**
a. Hypoglycemia.
b. Acute bronchospasm.
c. Management of seizures.
d. Acute adrenal insufficiency.
- ٢١- **Bioavailability of an agent is maximal when the drug is .**
a-Highly lipid soluble.
b-Larger than ١٠٠ Daltons in molecular weight.
c- Highly bound to plasma proteins.
d-Highly ionized.

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۲۸-Which medication inhibits the action of ω -lipoxygenase and consequently the action of leukotriene B₄.

- a-Cromolyn.
- b-Zafirlukast.
- c-Zileuton.
- d-Montelukast.

۲۹- Which agent is preferred antihistamine for the management of allergic rhinitis?

- a-Chlorpheniramine.
- b-Diphenhydramine.
- c-Phenylephrine.
- d-Cetirizine.

۳۰- A ۱۲-year-old girl with asthma presents to the emergency room with complaints of cough, dyspnoea and wheezing after visiting a riding stable. Which is the most appropriate drug to rapidly reverse her bronchoconstriction?

- a-Inhaled fluticasone.
- b-Inhaled beclomethasone.
- c-Inhaled albuterol.
- d-Intravenous propranolol.

۳۱-Which statement is correct regarding the difference between acetaminophen and naproxen?

- a-Acetaminophen has more anti-inflammatory effects compared with naproxen.
- b-Acetaminophen has more GIT side effects but less effects on bleeding compared with naproxen.
- c-Acetaminophen has less risk for CV events compared to naproxen ..
- d-Acetaminophen has fewer antipyretic effects than naproxen.

۳۲-Which prostaglandin agent can be used to maintain the patency of the ductus arteriosus in neonates with congenital heart problems while waiting surgery?

- a-Misoprostol.
- b-Epoprostenol.
- c-Bimatoprost.
- d-Alprostadil..

۳۳- Which of the following antibiotic agents should not be given to children less than ۸ years of age due to its deposition in bone and teeth.?

- a-Azithromycin.
- b-Doxycycline.
- c-Linezolid.
- d-Quinupristin.

2021 دور فبرایر Pharmacology exam for MSc in pediatric





Department of physiology
Time allowed: Three hours
Total marks: 60

Physiology
MSC Pediatrics

Tanta University
Faculty of Medicine
Code: PED 700
Date: 25/3/2021

All the questions must be answered:

1. Discuss : Causes and manifestation of cretinism. (15 marks)
2. Mention : Causes and manifestation of hemophilia and purpura. (10 marks)
3. State : Significance and factors affecting pulmonary surfactant. (10 marks)
4. Discuss : Causes and manifestation of obstructive jaundice. (10 marks)

All the following must be answered by only one choice (15 marks)

1- Edema is increased by:

- a. Decrease blood volume.
- b. Increase osmotic pressure of plasma protein.
- c. Increase capillary hydrostatic pressure.
- d. Decrease capillary hydrostatic pressure .

2- Peripheral chemoreceptors are mainly stimulated by:

- a. Alkalosis.
- b. Increase arterial pO_2 .
- c. Decrease arterial pO_2 .
- d. Increase arterial blood pressure.

3- Obstructive lung disease could induce:

- a. Metabolic acidosis.
- b. Metabolic alkalosis.
- c. Respiratory acidosis.
- d. Respiratory alkalosis.

4- Intrinsic mechanism of blood coagulation start by activation of factor :

- a. VIII.
- b. X.
- c. XII.
- d. III.

5- Aldosterone could decrease blood level of:

- a. Sodium.
- b. Potassium.
- c. Calcium.
- d. Glucose.

6- Stimulation of beta 1 adrenergic receptors could induce:

- a. Decrease heart rate.
- b. Increase heart rate.
- c. Miosis.
- d. Bronchoconstriction.

7- Irreversible shock induce:

- a. Increase sympathetic activity.
- b. Increase capillary permeability.
- c. Increase cardiac output.
- d. Decrease capillary permeability.

Look to back

Medical Biochemistry exam. for
First part of Pediatric Medicine M.Sc

All questions to be answered:

Give short account on the following Items:

- 1- Importance of hexose monophosphate shunt and discuss in details favism
- 2- Galactosemia
- 3- Phenylketonuria
- 4- Iron: absorption, function, and deficiency.
- 5- Vitamin D: sources, function, and deficiency.
- 6- Jaundice

WITH OUR BEST WISHES