

Course No: PHRM 3220
Course Title: Pharmaceutical &
Medicinal Chemistry (1)
Date: 31/05/2017
No. of Questions: (5)
Time: 2hours
Using Calculator (No)

University of Palestine



Final Exam
2016/2017
Total Grade: 50

Instructor Name: Mohammed
Abuiriban
Student No.: _____
Student Name: _____
College Name: Pharmaceutical
Sciences
Dep. / Specialist: Pharmacy
Using Dictionary (No)

Question One: Write the synthetic scheme of the following drugs?

A. Lomefloxacin.

B. 2-(2-Methyl-5-nitro-1*H*-imidazol-1-yl)-ethanol.

C. Hexamethylenetetramine.

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Question Two: Answer the following questions?

1. Sparfloxacin is possessing substituents exhibited an extended spectrum of activity.

A. Draw the structure mentioning the substituents and what advantages of these substituents do in the structure?

B. Why sparfloxacin has the lowest incidence of phototoxicity in fluoroquinolones?

C. Why sparfloxacin can't be given with antacids in the same time?

D. What is the mechanism of action of sparfloxacin?

2. Mention the medical uses of Metronidazole?

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Question Three: Answer the following questions by True (T) or False (F) and mention why?

1. Erythromycin is unstable to stomach acids. ()
2. Tetracycline causes a yellow discoloration of teeth that darkens overtime. ()
3. Methenamine usually accompanies with sodium biphosphate and acetohydroxamic acid to optimize the antibacterial effect. ()
4. Cephaloglycin is absorbed orally very well due to the presence of the phenylglycyl side chain in its structure. ()
5. Cefonicid appears to confer stability to some β -lactamases than Cephalothin. ()
6. Thienamycin shows a high resistance to β -lactamases. ()
7. Thienamycin can be used in clinical bacterial infections. ()
8. Imipenem is more stable against renal dehydropeptidase-I enzyme than Meropenem. ()
9. Amoxicillin is more active against Gram-negative bacteria than Benzylpenicillin. ()
10. Succinyl sulphathiazole is used to treat intestine infections. ()

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Question Four: Compare between the following drugs?

Drugs	Draw the structure with variations and characteristics	Pharmacokinetics with route of administration
A. Kanamycin sulphate		
B. Netilmicin sulphate		
A. Chloramphenicol Palmitate		
B. Chloramphenicol Sodium Succinate		

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A. Cefaclor		
B. Cephalothin		

Question Five: Complete the following table?

Drug name	Structure of the drug	IUPAC name
Cinoxacin		
Furazolidone		
		1-Ethyl-6-fluoro-1,4-dihydro-4-oxo-7-(1-piperazinyl)-3-quinolinecarboxylic acid

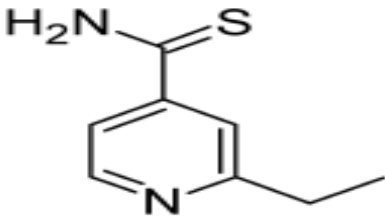
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Ethambutol		
Linezolid		
Nalidixic acid		
		1-[(5-nitro-2-furyl)methylideneamino]imidazole-2,4-dione
		

End of Questions
Good Luck