سوتكس 3 سوتكس بسم الله الرحمن الرحيم

Alazhar University-Faculty of Pharmacy

Department of Pharmaceutics and Industrial pharmacy

13/06/2013

(3) Guzup Pharmaceutics (3) Final exam

اسم الطالب:

Section	Marks
Section 1	/20
Section 2	/20
Section 3	/20
Total	/60

Section 1:

Put true or false and fill the table illustrated in the following page:

- Sterile suspension of Zn-insulin crystals in an aqueous medium buffered to between pH 7.2 and 7.5 with sodium acetate in the insulin Zinc suspension.
- The benzalkonium chloride 0.1 % and chlorbutanol 0.5 % are used as antimicrobial agents for the aqueous parenteral preparations.
- The borosilicate glass has low thermal coefficient of expansion and is chemically resistant glass.
- The cession of alkali elements in the powdered soda-lime glass require less H₂SO₄ to neutralize the pH of the medium rather than the type two glass.
- The Acrylics type thermoplastics has excellent weather ability, good electrical resistivity and high heat resistance.
- As chemical indicator for testing of the sterilization operation a green spot for high vaccum moist heat sterilization operating at 130 C or more is used.
- Excellent electrical resistance and low moisture absorption and permeability have the polypropylene type thermoplastics.
- The liquid filtration method which removes many types of large atomic molecules by forcing the liquid at low pressure through a membrane with pores to allow the smaller molecules to pass through is called reverse osmosis.
- The polyesterene type thermoplastics are the oldest and the most widely used plastics with high heat resistance.
- 10. The polyethylene and polypropylene polyofines are used as additives in the production of the thermoplastics to reduce the coefficient of friction of the material.
- 11. The time of thermal death includes the time of heating and the time of penetration.

- 12. The wave length λ is directly proportional to the transmitted energy in the radiation sterilization.
- The sodium- bisulfate 0.01 % is frequently used to prevent oxidation of the sterile dosage forms.
- 14. The dose of 2.5 rads is equivalent to the effect of 120 C during 30 minuts.
- 15. The Nylons type thermoplastics are used widely in the production of medical articles as tubing and special trays for use in urology and spinal procedures.
- The β type should be obtained when the Van-der Graaf system is used and has a high penetration capacity.
- 17. The pore size recommended for sterilization by filtration is 0.020 0.022 μm .
- 18. The chemical dosimeter gives an accurate measurement of radiation absorbed dose in the testing of sterilization operation.
- 19. The polyvinyl alcohol is used in the ophthalmic preparations basically to prevent the microbial contamination because the eye is a sensitive organ.
- 20. The polypropylene type thermoplastics is lighter than the polyethylene type, more heat resistant than the polypropylene with the same electrical resistance.

من فضلك انقل الاشارة عند التأكد من الاجابة النهائية

Q	А	Q	A	Q	A	Q	А
1	1913	6		11		16	
2		7		12		17	
3		8		13		18	
4		9	-	14		19	
5		10		15	7 51	20	

Section 2: Service for consulty from Specimen Specimen. C. What on the College and the Carrier Service Company of the College Company of the College Company of the College Co 22 September Settler of Settler Settle

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4	What is the sorption and explain its mecha	nism?
5.	Explain how the relative humidity affects for sterilization?	the efficacy of the chemical method
6	. Explain the basis of the bubble pressure to	est and why is used?

7.	What you know about the prompt-insulin Zinc suspension?
8.	Give the basis of the Royce-sacchet tset?
9.	What you know about the crystal indicators?
10	Give the equation that permits to calculate the amount released from the occusert?

section 3:

Define the following
A. Distillation

B. DLso

C. Inactivation factor.

D. Rad

E. Occusert 40 μg/h

2. Mention and explain in details the testing of Glass?



3. Mention an plastics?	d explain in det	ails the biol	logical test pr	ocedures	01
		20			
		8			

4. Fill the following table:

Characteristics	UV	lonizing radiations
Activity		
Units	124	
Mechanism		
Advantages		
Disadvantages		
	The second second	

Good luck Br. Issam Abushammala