Given below are two statements, one is labelled as Assertion A and the other 1 point is labelled as Reason R
Assertion A: Exotoxins diffuse freely through the bacterial cell wall into the medium in which the organisms are growing
Reason R: They are water soluble and can pass into the surrounding medium
In the light of the above statements, choose the correct answer from the options given below:
Both A and R are true and R is the correct explanation of A
Both A and R are true but R is NOT the correct explanation of A
A is true but R is false
A is false but R is true
What is the percentage of alcohol in a mixture obtained by mixing 5 L of 25%, 1 point 3 L of 40% and 2 L of 15% alcohol?
27.5% v/v
○ 27.5% v/v○ 30.5% v/v
○ 30.5% v/v
○ 30.5% v/v○ 25.5% v/v
○ 30.5% v/v○ 25.5% v/v
 30.5% v/v 25.5% v/v 26.5% v/v For disguising the astringent and metallic taste of iron salts in children's 1 point
 30.5% v/v 25.5% v/v 26.5% v/v For disguising the astringent and metallic taste of iron salts in children's mixture, the following flavoring agent in used
 30.5% v/v 25.5% v/v 26.5% v/v For disguising the astringent and metallic taste of iron salts in children's mixture, the following flavoring agent in used Orange syrup and compound orange syrup
O 30.5% v/v O 25.5% v/v O 26.5% v/v For disguising the astringent and metallic taste of iron salts in children's mixture, the following flavoring agent in used O orange syrup and compound orange syrup Lemon syrup Lemon syrup

A tablet excipient, whose function is to ensure that tablet formulation and ejection can occur with low friction between the solid and the die wall, is called:	1 point
Glidant	
Lubricant	
Anti-adhesive	
Binder	
Clatharates crystallize in the form of	1 point
Channel type structure	
tetragonal type structure	
Cubic type lattice	
Cage like lattice	
Which of the following ointment bases is an "absorption base"?	1 point
Yellow ointment, USP	
Hydrophilic petrolatum USP	
Hydrophilic ointment USP	
PEG ointment NF	

Which of the following drugs has an apparent volume of distribution approximately 6500 litres?	1 point
Amoxicillin	
Olbuprofen	
Chloroquine	
O Diazepam	
Which of the following surfactants is an ANIONIC surfactant?	1 point
Which of the following surfactants is an ANIONIC surfactant? Lecithin	1 point
	1 point
Lecithin	1 point
LecithinSorbitan esters	1 point

Match the following concept in List I with parameters in List II

LIST II	LIST I
Concept	Parameters
A. Volume of Distribution	I. Measure volume of real physiological plasma
B. Evans Blue	II. Human serum albumin
C. 3.5-5%	III. Volume of blood
D. Metallothionin	IV. Ratio of body drug content to plasma concentration
	V. Protein present in kidney to bind metal

Choose the correct answer from the options given below:

A-I. B-II, C-III, D-IV
A-V, B-IV, C-III, D-II
A-IV, B-I, C-II, D-V
A-III, B-II, C-IV. D-V

basic dye

Basic dyes are used in microbiological staining. Which of the following
statement is wrong about mechanism of staining?

The positive ions on the surface of bacteria form a colored complex with the dye
lonic exchange between the negative charge on the bacteria and positive charge of dye takes place
lonic exchange between the positive charge on the bacteria and negative charge of dye takes place

The neutral charge on the surface of bacteria forms a colored complex with the

point
point
р

Which of the following formulations are "pharmaceutically equivalent" ?

Match List I with List II

Ingredient		Function		Tablet	Tablet	Tablet	Tablet
				Α	В	С	D
A.	Acetaminophen	I.	Drug	300 mg		300 mg	300 mg
B.	Aspirin	II.	Drug		300 mg		
C.	Loctose	III.	Filler	100 mg	100 mg		100 mg
D.	Avicel	IV.	Filler			100 mg	
	Starch		Disintegrant	50 mg	50 mg		50 mg
	Avicel		Disintegrant			50 mg	
	Mag stearate		Lubricant	2 mg	2 mg	2 mg	2 mg
	Gelatin		Binder	10 mg	10 mg	10 mg	10 mg

	Choose	the	correct	answer	trom	the	options	given	below:
(A and	ΙВ							

\bigcirc	R and C

()	A and	C

\bigcirc	Ва	and	D
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What is the approximate amount of Powder (in mg) that can be filled in empty gelatin capsules of size 00?	1 point
O 1040 mg	
○ 650 mg	
○ 325 mg	
O 162 mg	
The interfacial forces are related to the contact angle by	1 point
Nernst Equation	
Stoke's Equation	
Young's Equation	
Caplace Equation	
In the Langmuir Isotherm, following statements are true except one:	1 point
The layer of the gas adsorbed on the solid adsorbent is one molecule thick	
Adsorbed layer is uniform all over adsorbent	
No desorption takes place when gas strikes solid surface	
No interaction between the adjacent adsorbed molecules takes place	

In absence of instruction by the prescriber, unless otherwise directed, the dose given for the mixture preparation should be stated on the label as
 One five ml spoonful to be taken three times a day in water Two five ml spoonful to be taken three times a day in water Two five ml spoonful to be taken two times a day in water One five ml spoonful to be taken two times a day in water
Suspensions containing a high percentage (about 50% or greater) of small, deflocculated particles would show which of the following flow properties?
Dilatant flowNewtonian flowPseudoplastic flow