Kafrelsheikh University Faculty of Vet. Medicine Departement of Virology Course: **rd year students



Please answer the following questions:-

١-	W	rite short notes on:	(\]	Marks)
	a)	Fundamental characters of viruses		
	b)	b) Steps of Viral replication cycle and discuss viral penetration into the host cell		
	c)			
	d)	Interferon itself is not directly an antiviral a	ngent (Discuss)	
۲_	C	omplete the following sentences :		(7 Marks)
	a)	Viruses may be shape such as Pox or crown shape such as		as Rabies virus
	b)	b) Prion infection doesn't result in inflammatory or immune response due to		
	c)	e) Function of Viral capsid		
	d)	Attenuated reassortants may be constructed among viruses withgenome		
	e)	Portals of virus release from the host include		
	f)	DNA viruses are widely used in virus vector	vaccines due to	
٣_	7- Write the scientific term for each of the following: (7 Marks)			
	a)			
	b)			
		neuraminic acid) on the surface of the RBCs by splitting it from the receptors.		
	c)	A viral genome which has nucleotide sequence identical to those of mRNA and directly translated into proteins without the need of transcription.		
	d)	Viral proteins concerned with the regulation of virus replication and inhibition of the expression of cellular RNA.		
	e)			
	f)	A substance added to vaccine to potentiate its immunogenesity.		
٤_	Choose the correct answer: (Please write your answer in a table) (* Marks)			• Marks)
	1- Which of the following nucleic acid types are <u>not found</u> in viruses?			
		a) Linear dsDNA	c) circular ssRNA	
		b) Circular dsDNA	d) linear ssRNA	
	Y- A chemical component that is found in <u>all viruses</u> is:			
		a) Lipid	c) DNA	
		b) Protein	d) Glycoprotein	

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٣_	DNA viruses that multiply in the cytoplasm useenzyme for transcription.			
	a) Viral replicaseb) Host replicase	c) host DNA-dependent RNA polymerased) Viral DNA-dependent RNA polymerase		
٤_	Purified viral envelope glycoproteins lacking nucleic acid are called			
	a) virionsb) prions	c) virosomesd) deletion mutants		
٥_	During viral infection, certain obligatory stages must be completed for the virus to be spread from host to another which include			
	a) Entranceb) viral tropism	c) synthesis of late proteind) assembly		
٦_	Ts mutant vaccines can multiply safely at			
	a) TV °C b) To °C	c) &o°C d) all of the above		
٧_	The DdRp helps to create			
	a) DNA from +ve sense RNAb) DNA from -ve sense RNA	c) mRNA from DNA d) RNA from mRNA		
۸_	Pantropic viruses such as			
	a) Rabies virusb) NDV	c) Herpesvirusd) Poxvirus		
۹_	Viral inactivation for vaccine production can be achieved by			
	a) β- Propiolactoneb) Alum	c) Mineral oil d) b and c		
١.	-Influenza virus is a			
	a) haemagglutinating - eluting virus	c) non eluting virus		
	b) haemagglutinating- non eluting virus	d) non haemagglutinating virus		

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Best Wishes Dr.Asmaa Magouz