LAST NAME:		IE:FIRST NAME:	SID:
MC	B 55 Pla	agues and Pandemics Final December	19th, 2019
	re are 10 C K!!!	00 points total. Read each question careful	ly. Choose the <i>best</i> answer. GOOD
PAI belo		rue/False (25 pts). Please fill-in the box	for True or False for each statement
Mal box		you fill in the box completely, and if you o	change your answer put an X through the
T	\mathbf{F}		
		1. More than six out of every 10 known from animals	infectious diseases in people are spread
		2. There are more people currently living	g with HCV than HBV
		3. 10% of the human cases of Ebola cou	ld be traced to a dog bite.
		4. Ebola virus is the most deadly virus k	nown to infect humans
		5. Administration of hepatitis B vaccine globulin injections, is effective in reducing	
		6. Zika virus infections are responsible f than infections associated with human cy	
		7. 350 millions of individuals are infected B virus. 5% of them will become infected	•
		8. Vertical transmission at birth is the m with high HBV prevalence	ain route of HBV infection in countries
		9. About 90% percent of the babies born develop a persistent infection	from a HCV-infected mother will
		10. The current Ebola outbreak (2018-20 outbreaks combined	19) is worse than all the other Ebola
		11. Agricultural intensification is not lin contrast to global warming and climate c	
		12. Changes in burial practices in Wester	<u> •</u>

		13. Ribavirin is the drug of choice to treat Ebola patients
		14. 80% of liver cancers are due to HCV
		15. A recent new drug regimen, based on interferon injections, allows for cure rates up to 99% in people infected with hepatitis C virus.
		16. Herpes simplex virus 1, the causal agent of cold sores, can also infect the genital areas
		17. Most infection with Human Papilloma virus in the cervix are naturally cleared
		18. More than 70% of all the cervical cancer in the US are associated with infection with HPV 6 and HPV11
		19. It is estimated that in the US, 50% of young adults infected by HIV don't know their status
		20. All the viruses that encode a reverse transcriptase are member of the retroviridae family.
		21. CD4 T-cell counts that are below 200 per microliter is a diagnosis of AIDS
		22. HSV1 and HSV2 are the most common sexually transmitted infection in the US
		23. India accounts for a large fraction of the global death toll associated with Rabies infections.
		24. Human herpesvirus 1 establishes latency in the epithelial cells of the lips. Episodes of reactivation are associated with the appearance of cold sores.
		25. Herpes simplex transmission occurs only during symptomatic periods
PART B. Make sure your markings are clear. The number of points (indicated in parenthesis) might vary for each question		
26.1	Name 3 v	riruses that are transmitted by mosquitoes (2)

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27. Name 3 viruses for	and in bats that are transmitted to h	umans (2)
28. Name 3 viruses wh	ose infection is associated with can	ncers in human (2)
zoonotic viral disease (The ability to to to the distriction of the	-	eme bottleneck in the emergence of a
_	sembly	le. Rank them by their order of
campaigns using intrav	til the 1980s, the Egyptian Ministry venous tartar emetic, the standard tro py. What was the unfortunate outco	eatment for schistosomiasis, as

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33.What is the viral pro	tein targeted when nucleoside anal	ogs are used as antiviral treatmen	it? (2)
PART C. Short question	ons (no more than 4 sentences all	owed to answer). 5 points each	1
34. Explain why it is be an HIV infection?	eneficial to be homozygotes for a d	eletion in the CCR5 gene when fa	acing
	ne that herpesvirus infections might could be one of these outcomes an		omes
36. Explain, in a few wo papilloma virus.	ords, the process of oncogenesis as	sociated with infection with huma	an

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37. How was the vaccine	e for Ebola virus engineered?	
	the peak of the Zika epidemic in Br mpic games occurring in Rio de Jar	razil, no athletes were sick due to Zika neiro that year. Give one reason to
39. RNA viruses are gen one reason for why this	nerally more likely to cause zoonosi might be the case?	is than DNA viruses. Can you propose

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40. What is the main pub	olic health strategy for the preven	tion of rabies in humans?
41 Priofly avalain contr	act tracing and its benefit during a	n Eholo onidomio
41. Briefly explain conta	ict tracing and its ocnerit during a	in Ebola epidenne.
	related to Dengue virus. Why doo	es this fact introduce a complication
when attempting to deve	nop a vaceme agamst zika:	

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43. Describe briefly how interferons (IFN) exert their antiviral properties.			
44. What is unusual about the treatment given to people that are suspected to have been bitten recently by a rabid animal?			
45. When considering Wes	t Nile virus, why are human a	and horses considered "dead end" host?	