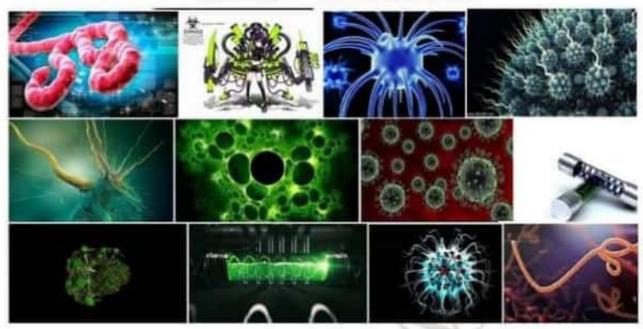
CHAP# 5 Acellular Life



S. No	Questions	wers
	STRUCTURE OOF SOME REPRESENTATIVE VIRU	S
487.	In HIV the proteins gp120 and gp41 together makes the	Spikes
488.	In HIV the proteins p117 make the Matrix and p24 together makes the	Core
489.	HIV belongs to special class of virus called Retrovirus, within this class it is in	Subclass Lentivirus
490.	Three HIV genes gag, pol, and env code for Protein syntheses for new	HIV particles ETEA-2012
491.	Six HIV genes tat, rev, nef, vif, vpr, and vpu code for protein that control the ability of	Infection
492.	2 Glycoprotein molecules, known as hemagglutinin(HA) and Neuraminidase(NA) are stuck on liquid envelop of	Flu Virus
493.	Flu Virus belongs to	Enveloped group of virus
494.	Flue virus has single strand	RNA ETEA-2019
495.	HIV genes that carry information for protein synthesize	gag, pol & env ETEA-2017
496.	HIV genes that have ability for infection	tat, rev, nef , vif, vpr & vpu
497.	RNA strand which help HIV replication is	Long terminal repeat
498.	8 separate pieces of RNA make up	Influenza virus genome
499.	Hepatitis B spreads through	Infected body fluids
500.	HA is rod shaped triangular molecule while NA is Mushroom shaped spike on	Flu virus they are present
	LIFE CYCLE OF BACTERIOPHAGE	

501.	Lytic cycle is also called			Master-slave relation
502.	Lysogenic cycle is also called			Guest -host relation
503.	When a virus securely attach to host cell in good conditions			The infection begins
504.	The type of life cycle in which bacterium cell burst are called			Lytic cycle
505.	Phages can be	used as		Cloning vectors
506.	Cloning vector	rs are capable of replicating		Living organisms
			ND HIV INFECTION	
507.	AIDs is caused	1 by		HIV or AIDs virus ETEA-2012
508.	There are two	types of lymphocytes		B and T cells
509.	B cells release	The state of the s		Antibodies
510.	T cells directly	V:		Attack and destroy
				cell
511.	HIV contain			2 RNAs
			- 10	ETEA-2011
512.		Hepatitis	Nuclei Acid	
		Hepatitis A	RNA	
			DNA	
		Hepatitis B	A Landa	
		Hepatitis C	RNA	
513.	There are two	types of T cells		Helper and killer
514.	Helper T cell		.)	Recognize antigen
515.	Killer T cell ki	ill the		Antigen
516.	HIV can only replicate inside		Human beings	
517.	Bacteropphage only replicate inside		Bacteria ETEA-2019	
518.	HIV have spec	cial carriers on its surface	called	CD4
519.	Viral DNA integrated into human DNA by HIV enzyme called		Integrase	
520,	The enzyme present in phage which digest cell wall of bacteria is called		Lysosome	
521.	T cells are also called CD4 cells or CD4 T cells or		CD4 cell lymphocytes	
522.	Enzyme that convert the viral RNA into DNA is		Reverse Transcriptase ETEA-2017	
523.	The combine I	DNA formed from human	and viral DNA is called	Provirus
524.	Anti-HIV are also called		Antiretroviral	
525.	3 or more anti-HIV medications(HAART) are known as		Cocktail	
		SOME OF	THE VIRAL DISEASES	
526,	Hepatitis means inflammation to		Liver ETEA-2014	
527.	Hepatitis A is also called		Infectious hepatitis	
_	Hepatitis B is also called		The state of the s	
528.		also called		Serum hepatitis
528. 529.		Arrest track of the Arrest Arrest		Serum hepatitis Herpes simplex virus type 1,2

531.	Leaf curl diseases of cotton is caused by		Complex of begome virus
532.	Transmissible neurodegenerative diseases is caused by		Prions
533.	Hepatitis D is caused by		Viroids
			ETEA-2015
534.			
	Disease Incubation period		
	leaf curl disease/syphillis	2-3 weeks ET	EA-2016
	Hepatitis A	2 – 6 weeks	
	Hepatitis B	4 - 20 weeks ET	EA-2019
	Hepatitis C	2 – 26 weeks	C
	Polio	5 - 35 days (avg=7-	14 days)
		a secury ting t	
535.	There is no medications used to treat		Hepatitis A
536.	Polio cause		Muscle paralysis
537.	Leaf curl disease of cotton are transmitt	ed by	Whitefly Bemisia tabaci
538.	Pox virus is the	. 10	Longest virus
539.	Antibiotics can be used for	- 1	Urinary track infections
540.	Bethanechol can be used for	1	Urinary retention
541.	Polio immunization vaccine is effective	upto	90%
	The second of th		ETEA-2017
542.	Leaf curl disease of cotton is caused by		Begomovirus species
			ETEA-2017
543.	Leaf curl disease are transmitted by whitefly called		Bemisia tabaci
544.	Most animals ans plants viruses are	icity caned	RNA
- 17	From annuals and plants viruses are	ETEA-2016	
545.	The only senus of bacteria which lack (Mycoplasma	
546.	The only genus of bacteria which lack Cell walls is The phage contain an enzyme which digest was of bacterium called		
547.	HIV is	RNA virus	
A	m. s		
- 11	(annual)		ETEA-2015
548.	uman viruses ETEA		
549.			
550.			
551.			
552.			
553.	Measles		
554.	Severe acute respiratory syndrome		
555.			
556.	Bacteria replication time → 20 min		
557.	Virus replication time → 70 sec		
558.	Visus discover by iwanosky in 1892		
559.	Most animal virsuses are RNA ETE	A	
560.	Virus characteristics		
	ring characteristics		
561.	DNA-RNA		

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Lymphocytes / WBCs	<u> </u>	
B cells	T cells	
Produce antibodies	Helper	Killer

Life cycle of HIV ETEA

- 589. Attachment → onCD4 cells
- 590. Penetration
- 591. Replication
- 592. Assembly
- 593. Lysis
- 594. HIV+cell virus → proviruse ETEA
- 595. Without treatment, HIV develops in 8-10 year
- 596. With treatment, it takes 15 years or more to develop AIDs ETEA

597.	Disease	Incubation period
598.	leaf curl/ syphilis	2-3 weeks
599.	Hepatitis A → RN	2 – 6 weeks
600.	Hepatitis B DNA	4 – 20 weeks
601.	Hepatitis C → RNA	2 - 26 weeks
602.	Polio	5-35 days (avg=7-14 days)
603.	HIV	6-12 weeks

Opertunistic invasions ETEA

- 604. Pulmonary tuberculosis
- 605. Candidiasis of eosophagus, trachea, bronchi and lungs
- 606. Taxoplasmosis of brain
- 607. Severe bacterial infection
- 608. Recurrect pneumonia

609. HAART → cocktail → 3 or more drugs ETEA-2015

Hepatitis

- 610. A → infectious + no chromic liver disease
- 611. B → serum, + cause liver cancer
- 612. C → chronic liver disease + two drugs which is 50% useful
- 613. Diagnosis → blood test

Polio treatment ETEA

- 614. Antibiotics for urinary track iinfection
- 615. Bethanechol for urinary retention
- 616. Moist heat to reduce muscle pain and spasms
- 617. Pain killer to reduce pain
- 618. Norcotics are not given due to risk of breathing difficulty

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- 619. Hep C treatment of 2 drugs 50% effective
- 620. Polio vaccine → 90% weffective
- Leaf curl diease cause → begomovirus ETEA
- 622. eaf curl transmitted by → bemisia tabaci
- 623. Prions are infectious proteins
- 624. Codes in host brains that if normal would become neurs
- 625. In scarpie the CAN of sheepand goats are affected

Severe prion diseas ETEA

- 626. SJD → Crutzuld-jocab disease
- 627. GSS →Gertsmann-Stessahular -Schinker syndrome
- 628. FFI→ Fatal familia isomonia

Viroids

- 629. Simple than viruse
- 630. Small, circular, single stranded molecule of RNA ETEA
- 631. Lack proteins coat
- 632. Cause diseas like
- 633. Hep D ETEA
- 634. Potato spindle tuber disease
- 635. Cucumber pale fruit
- 636. Citrus exocortis disease
- 637. Cadang-cadand (coconuts)
- First viroid → potato spindle tuber viroid (PSTV) I
- 639. PSTV → RNA that's secondary stuture has been established