Examination : 2023 Medical Lab Technician

Time : 1.5 Hrs Set:- 1	M.M. :50
1. AIDS stands for	
☐ Acute Infectious Disease Syndrome	AcquiredImmunodeficiencySyndrome
Aggressive InfectiousDisease Syndrome	■ None of the above
2. Quality assessment me National program are:	ethods used in the
Proficiency testingRe-checking/ Re-testing	
3. Standard Operating Pr	ocedures (SOPs) are:
☐ General Documents☐ Inventory records	Controlled documentsPolicy
4. Which of following is th	e largest Immunoglobin?
□ lgM □ lgD	☐ IgG ☐ IGE
5. HIV infects	
Y-helper cellsK-helper cells	T-helper cellsNone of the above
6. Effectiveness of antiret	roviral therapy is measured by:
and an increase in theCD4 of	oad A rise in red blood cell count count. and hemoglobin level. oodies A reduction in opportunistic infections.
7. Which of these disease	es involves a problem with the red

□ leukemia	□ naemopnilia □ sickle-cell anemia
8. Immunological failure in HIV	is
□ CD4 cell count > 500□ CD4 cell count > 1500	□ CD4 cell count > 1000□ CD4 cell count < 200
9. What is the approx. %age of stick exposure?	transmission of HIV by needle
□ 3%□ 30%	□ 0.30%□ None of the above
10. What is p24?	
□ Envelop antigen in HIV□ Core antigen in HIV	☐ Genome of HIV☐ Shell antigen
11. The specific gravity of urine by a	and total solids are measured
photometer.polarimeter.	coulometer.refractometer
12. Pyrimidine base:	
AdenineThymine	☐ Guanine☐ Uric acid
13. One of the following is not t of HIV infection:	he known route of transmission
 Sexual contact with an HIV positive individual Mother to child transmission when mother is HIV positive 	 Transmission through blood infected with HIV Casual community contact with a HIV positive individual
14. Which device is used to cal	
□ Odometer□ Tachometer	□ Speedometer □ Metronome

15. Which cell are damaged by HIV infection

□ RBCs □ B cells	□ WBCs □ CD4 CELLS	
16. For transportation of biologic necessary?	cal specimen what is	
☐ Declaration about specimen that you are shipping an infectious sample.	☐ Bio hazard label	
☐ Spillage kit with instruction	☐ All of above	
17. In a laboratory setting what o	does SOP stands for?	
Special Operating ProcedureSafety Operating Protocol	Standard Operating ProcedureScientific Observations	
18. After exposure PEP should ideally be taken within		
2 hours	4 hours	
☐ 24 hours	☐ 48 hours	
19. Which of the following is a sy	ymptom of AIDS?	
☐ Fever☐ Tiredness	Swollen lymph nodesAll of the above	
20. In HIV window period indicat	tes:	
☐ Time period between infection and onset of first symptoms	☐ Time period between infection and detection of antibodies against HIV	
☐ Time period between infection and minimum multiplication of the organism	☐ Time period between infection and maximum multiplication of the organism	
21. String test is used for		
□ B.Antracics□ B.Abortus	□ V.Cholerae□ P.Mallei	
22. Abnormal fat catabolism pro	duces	
ketone bodiesalmentary glycosuria	□ glycosuria.□ orthostatic proteinuria	

23. For CD4 testing, which meth preferred?	od of Pipetting should be
□ Reverse□ Repetitive	□ Forward□ Whole Blood
24. Other than water, the most co	ommon component of plasma is
chlorideprotein	urea sodium
25. What is EQAS?	
□ External Quality Accuracy system	Strategy
External Quality Assessment Scheme	□ None of the above
26. All of the following are the effor HIV infection except	fective current preventive methods
☐ Practice safe and protected sex	□ Taking pre-exposure prophylaxis (PrEP) medications for individuals at higher risk of HIV
 Use of shared injection needles for drug use 	☐ Safe blood transfusion method
27. Which of the following enzyment replication process and plays a desired HIV infection?	ne is required for the viral critical role in the pathogenesis of
☐ RNA polymerase	□ DNA polymerase
☐ RNA polymerase II	☐ Reverse transcriptase
28. NK (Natural Killer) cells prov	vides immunity against
□ Bacteria□ Chlamydia	☐ Fungus☐ Virus
29. Following is not an Antiretrov	viral drug
TenofovirZidovudine	LamivudineAzithromycin

30. The malarial sporozoite in man invades:

Reticulo-endothelial cells	☐ RBCs☐ all of the above
31. ART starts in HIV positive pati	ents when the CD4 count is
less than 200 more than 500	□ more than 250□ irrespective of CD4 count
32. Which of the following is an imouter membrane of HIV that helps cells?	•
□ Polysaccharides□ Proteins	☐ Glycoproteins☐ Lipopolysaccharides
33. The decision to begin antiretro	oviral therapy is based on
☐ the CD4 cell count	☐ the plasma viral load
☐ The intensity of the patient's clinical symptoms.	□ None of the above
34. All of the following are exampl specimens that can be taken from laboratory diagnosis of HIV infecti	a HIV infected patient for the
□ Blood□ Genital secretions	☐ Saliva with the presence of blood☐ Urine with no presence of blood
35. Identify the correct order of sp material 2. Waste bag 3. Gloves 4	-
□ 3→1→4→2	□ 1→2→3→4
□ 3→2→1→4	□ 4→3→2→1
36. Levy Jennings chart for validate the range of:	tion of test results usually employs
☐ Mean 1SD	☐ Mean 2SD
☐ Mean 3SD	☐ Mean 4SD
37. HIV is believed to have evolve which animal?	ed from a similar virus found in
Baboon	□ Chimpanzee
□ Elephant	☐ Guinea pig

38. Red blood cells survive around	days.
□ 120□ 10	□ 240 □ 360
39. In the patients of AIDS CD4 cel	ls count
□ <200/ <i>μ</i> l □ <400/ <i>μ</i> l	□ >200/ μl □ >400/ μl
40. Cluster of differentiation (CD)ar	e present on
surface of cellsin the nucleus	□ in the cytoplasm□ in the mitochondria
41. Escherichia coli usually grow or	n EMB agar exhibiting
swarming.a pink periphery and a blue-black center.	pink-blue colonies.black colonies with a green metallic sheen
42. HIV can also spread through	
Sharing waterSharing needles	Breathing in infected dropletsKissing
43. How does HIV become AIDS?	
☐ HIV attacks the T cells☐ HIV destroys cells in the body	☐ HIV makes multiple copies of itself☐ All of above
44. PPE (Personal Protective Equip	oment) includes
□ Apron□ Shoe cover	☐ Gloves☐ All of above
45. During this phase, the person be active. It is attacking T-cells and slot The infected person feels well and	wly weakening immune system.
☐ Asymptomatic Phase 1☐ Phase 3, AIDS	Symptomatic Phase 2All of the above

46. HIV can be transmitted by

□ Blood or blood products□ sexual contact	☐ Infected Needles☐ All of above
47. The recommended storage tempediagnostic kits is	perature of most of the HIV
□ 00 degree Celsius□ -300 degree Celsius	2-8 degree Celsius-700 degree Celsius
48. In individuals with HIV, opportun	istic infections are:
More frequentNon-existent	Less frequentNone of the above
49. Mother to child transmission of H	HIV occurs
During pregnancyBreast feeding	During deliveryAll of above
50. One of the following is false with reporting process:	respect to the HIV testing and
□ Testing must follow informed voluntary written consent from the patient	☐ Testing must be accompanied by pre and post test counseling
☐ Testing must be done as per the NACO HIV testing strategies and guidelines	☐ HIV test results may be conveyed on phone or by fax.

SET -1 Answer key

	Answer key
1	b
2	d
3	b
4	а
5	b
6	a
7	d
8	d
9	b
10	C
11	d
12	С
13	d
14	
15	c d
16	d d
17	b
18	a
19	d
20	b
21	b
22	a
23	С
24	С
25	С
26	С
27	d
28	d
29	d
30	b
31	d
32	b
33	d
34	d
35	a
36	b
37	b
38	а
39	а
40	а
41	d
42	С
43	d
44	d
45	a
46	d
47	b
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48	а
49	d
50	d