AHS 5th Se DATE: 22	VIROLOGY & MYCOLOGY mester Summer Summer 2023 -05-2023	TOTAL MARKS: 100 TIME ALLOWED: 1 hour 40 m
Instruction	MULTIPLE CHOICE QU as: Attempt all questions. Each question con	
Q. No. 1	A virus having twenty corners of capsid is said to a. Helical b. Icosahedral c. Spherical d. Metrix	be?
Q. No. 2	What are Buildings blocks of viral capsid? a. Capsomeres b. Viral envelope c. Spikes d. Viral nucleic acid	
Q. No. 3	Viral envelope is made up from? a. Glycoprotein b. Lipoprotein c. Carbohydrates d. Polysaccharides	
Q. No. 4	Which of the following is heat sensitive compon a. Viral capsid b. Viral envelope c. Viral spikes d. Viral nucleic acid	ent of virus?
Q. No. 5	For the formation of viral envelope, lipid content a. Viral capsid b. Host cell c. Viral spikes d. Viral nucleic acid	
Q. No. 6	Identify the example of virus that can transmit a. Corona virus b. Influenza virus c. HIV d. Polio virus	through Sexual contact?
Q. No. 7	Primary site of replication of all DNA viruses? a. Nucleus of host b. Cytoplasm of host c. Cell membrane of the host d. Ribosome of host	
Q. No. 8	Which of the following vaccine contain alive an a. Recombinant vaccine b. Live attenuated vaccine c. Toxoid vaccine d. Killed vaccine	
Q. No. 9	What kind of vaccine is used to prevent hepatit a. Subunit vaccine b. Live attenuated vaccine c. Toxoid vaccine d. Killed vaccine	
Q. No. 10	a set of a first set of a set	given the subunit vaccine. leads to painful vesicles along nerves. ster results in more congenital abnormalities than infectio
Q. No. 11	Your patient is a 35-year-old man who had a g imaging revealed a lesion in the temporal lobe. intranuclear inclusion bodies. Which one of the a. Cytomegalovirus b. Epstein-Barr virus c. Herpes simplex virus type 1	rand-mal seizure this morning. Magnetic resonance A brain biopsy showed multinucleated giant cells with following is the most likely cause of this disease?
Q. No. 12	Your patient is a 22-year-old woman with seve	ral episodes of bloody diarrhea. She is HIV antibody for Shigella, Salmonella, and Campylobacter were in was negative. Colonoscopy revealed many ulcerated

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B

(B) (B)

	lesions. Biopsy revealed cells with "owl's eye" inclusions in the nucleus. Which one of the following
	most likely cause of this disease? a. Cytomegalovirus
	b. Epstein-Barr virus
	c. Herpes simplex virus type 1
	d. Human herpesvirus 8
Q. No. 13	d. Fuman herpesvirus 8 Regarding human papillomavirus (HPV), which one of the following statements is most accurate?
	 a. There is no vaccine available against HPV. b. Acyclovir is effective in preventing lesions caused by HPV but does not cure the latent state.
	a Aptigen antibate complexes play an important role in the pathogenesis of wards caused by the
	d. The early proteins of HPV play a more important role in manghant transformation many the
Q. No. 14	Regarding influenza virus, which one of the following statements is most accurate.
	 a. The virion contains an RNA-dependent DNA polymerase. b. Its surface proteins, hemagglutinin and neuraminidase, have multiple serologic types.
	c. The protein that undergoes antigenic variation most often is the internal ribonucleoprotein.
	d. Antigenic drift involves major changes in antigenicity that result from reassortment of the segments of its
	RNA genome.
Q. No. 15	Regarding influenza virus and the disease influenza, which one of the following statements is most
	a. Both the killed and the live, attenuated vaccines induce lifelong immunity.
	b. Influenza A virus causes more severe disease and more widespread epidemics than does influenza B virus
	c. The genome of influenza A virus has eight segments, but the genome of influenza B virus is in one piece
	d. The classification of influenza viruses into A, B, and C viruses is based on antigenic differences in their
0 No 16	hemagglutinin A woman was hiking in an isolated area when a skunk appeared and bit her on the leg. She now present
Q. No. 16	to your emergency room about an hour after the bite. Which one of the following is the most appropriate
	thing to do?
	a. Give rables vaccine and hyperimmune globulin immediately .
	b. Reassure her that rabies is not a problem because skunks do not carry rabies.
	 c. Quarantine the animal for 10 days and only treat her if signs of rabies appear in the animal. d. Test the patient's serum for antibodies now and in 10 days to see if there is a rise in antibody titer before treat.
	her
Q. No. 17	Regarding poliovirus and the disease poliomyelitis, which one of the following is most accurate?
	a.Poliovirus is transmitted primarily by the fecal-oral route . b. New antigenic variants arise by coinfection with animal strains of poliovirus.
	c. Paralytic poliomyelitis is the most common manifestation of poliovirus infection.
	 d. Poliovirus has single-stranded RNA as its genome and a polymerase in the virion that synthesizes its mRNA
Q. No. 18	An outbreak of jaundice occurs in several young children who attend the same day care center. If the
	outbreak was caused by a virus, which one of the following is the most likely cause?
	a. Hepatitis A virus b. Hepatitis B virus
	c. Hepatitis C virus
	d. Hepatitis D virus
Q. No. 19	A woman who is hepatitis B surface antigen (HBsAg) positive and hepatitis B surface antibody (HBsAb) negative has just given birth. Which one of the following is the most appropriate thing to do for the
	negative has just given birth. Which one of the following is the most appropriate thing to do for the newborn?
	a. Nothing. The child is protected against hepatitis B.
	 Immunize with the vaccine containing HBsAg (HBV vaccine).
	c. Give hepatitis B hyperimmune globulin (HBIG). d. Give both the HBV vaccine and HBIG
Q. No. 20	Your patient is a 35-year-old man who complains that the whites of his eyes have turned yellow. After
Q	taking a history and doing a physical, you order serologic tests to determine whether he has viral
	hepatitis. On the basis of the results, you tell him that he has a mild form of hepatitis that does not cause
	long-term damage to the liver. Your conclusion is based on a positive result on which one of the following
	a. Antibody to hepatitis C virus
	b. Hepatitis B surface antigen
	c. Hepatitis delta antigen
0.11.11	Vellow fever still exists in many tropical areas of the globe. Which one of the following is the best reasons
Q. No. 21	vellow fever still exists?
	a. Sewage disposal is inadequate in many areas.
	 Both humans and monkeys are reservoirs for yellow fever virus.
	c. The virus has mutated, so the existing vaccine is no longer effective.
Q. No. 22	d. The vaccine has been withdrawn because it was found to have unacceptable side effects Regarding the mode of action of antifungal drugs, which one of the following is most accurate?
Q. No. 22	Regarding the mode of action of antifungal drugs, which one of the following is most accurate?
Q. No. 22	Regarding the mode of action of antifungal drugs, which one of the following is most accurate? a. Azole drugs, such as fluconazole, act by inhibiting ergosterol synthesis . b. Amphotericin B acts by inhibiting fungal protein syntheses at the 40S ribosomal subunit.
Q. No. 22	Regarding the mode of action of antifungal drugs, which one of the following is most accurate? a. Azole drugs, such as fluconazole, act by inhibiting ergosterol synthesis . b. Amphotericin B acts by inhibiting fungal protein syntheses at the 40S ribosomal subunit. c. Terbinafine acts by inhibiting fungal DNA synthesis but has no effect on DNA synthesis in human cells
Q. No. 22 Q. No. 23	Regarding the mode of action of antifungal drugs, which one of the following is most accurate? a. Azole drugs, such as fluconazole, act by inhibiting ergosterol synthesis . b. Amphotericin B acts by inhibiting fungal protein syntheses at the 40S ribosomal subunit.

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	 b. Molds are fungi that grow as single cells and reproduce by budding. c. Some fungi are dimorphic (i.e. they are used to be budding).
1	 c. Some fungi are dimorphic (i.e., they are yeasts at room temperature and molds at body temperature). d. The fungal cell membrane contains ergosterol, whereas the human cell membrane contains challen.
1 0. No. 3	 d. The fungal cell membrane contains ergosterol, whereas the human cell membrane contains cholesterol. AIDS disease is caused by a virus which belongs to
Q. NO. 1	Present disease is caused by a since out the since of the
	a, recto virus group
	b. Rhabdo virus group
	c. Hepatitis virus group
() No. 2	d. Adeno virus group
Q. No. 2	
	a. HIV
	b. Measles
	c. Mumps
0.01	d. Rubella
Q. No. 2	
1.00	a. Aspergillus sps
	b. Penicillium sps
	c. Alternaria sps
	d. None of these
0 1 0	
Q. No. 2	
	 The central nervous system only
	b. The peripheral nerves
	c. Muscle tissues
O No 2	d. All the above
Q. No. 2	a Loosever B whereas we cauco
	a. Moulds
	b. Filamentous fungi
	c. Both a and b
Q. No. 2	d. Yeasts
Q. 140. 2	a state of the sta
	a. Fluconazole b. Amphotericin
	b. Amphotericin c. Caspo fungin
	d. Griseofulvin
Q. No. 3	
e	a. Thread
	b. Whip
	c. Prominent halo of spikes
-	d. Tales
Q. No. 31	Which one of the following repeating subunits are responsible to determine the shape of the viruses?
	a. Capsid
100	b. Capsule
10	c. Capsomers
-	d. Envelope
Q. No. 32	Any fungal infection of the skin, hair or nails is called a?
	a. mycophytosis
	b. hairandnailopsis
	c. dermatophytosis
1	d. keratosis
Q. No. 33	Polio is primarily a disease that affects?
	a. the gastrointestinal system
	b. the central nervous system
	c. muscles and skeleton
0.11	d. the respiratory system
Q. No. 34	Molds grow by the formation of ribbon like structures are known as:
	a. Septum
h	b. Mycelium
	c. Hyphae
	d. Septae
Q. No. 35	Which one of the following fungi do not exist as saprophytes?
	a. Cryptococcus
	b. Aspergillus
	c. Candida albicans
	d. Histoplasma
Q. No. 36	Which one of the following chemical component is only present in wall of fungi?
	a. Peptidoglycan
	b. Ergosterol
	c. Chitin
	d. Zymosterol
Q. No. 37	Regarding Ebola virus, which one of the following is most accurate?
and the second second	a Skunks and raccoons are the main natural reservoirs for Ebola virus.
	b. In endemic areas, most people are latently infected with Ebola virus.

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	in a precision of the prevent disease.
	 c. People known to be exposed to Ebola virus should be given ganciclovir to prevent disease. d. The appearance of Ebola virus in the electron microscope is that of a long thread, which often has a complete the state of the sta
	d. The appearance of Ebola virus in the electron microscope is that of a long
Q. No. 38	Which of the following modes of transmission of animal
	virus (HIV) occurs significantly MORE often than the objects
	a. Direct skin contact
	b. During childbirth
	c. Fecal-oral route d. Respiratory aerosols
Q. No. 39	the state of the second and the seco
	lives in the Central Valley of California. She complains of severe low on a needle biopsy of the lesion An X-ray reveals a lesion in the fourth lumbar vertebra. Material from a needle biopsy of the lesion examined by a pathologist who calls to tell you the patient has coccidioidomycosis of the following, which one did the pathologist see in the biopsy? a. Nonseptate hyphae b. Septate hyphae c. Spherules containing endospores
(3 A) (6	d. Yeasts with a single bud
Q. No. 40	What types of viruses contain the enzyme lysozyme to aid in their infection?
	a. Bacteriophage b. Animal Viruses
	c. Plant Viruses
	d. Fungal Viruses
	e. Human Viruses
Q. No. 41	Which of the following is not an RNA virus?
	a. Retrovirus
	b. Enterovirus
	c. Rhabadovirus d. Adenovirus
Q. No. 42	A type of cell culture that can reproduce for an extended number of generations and is used to support
Sector 12	viral replication is a :
	a. Primary cell culture
	b. Continuous cell line
	c. Cell strain
0 1 1	d. Diploid fibroblast cell
Q. No. 43	What is the most common cause of aseptic meningitis of viral etiology? a. Enteroviruses
	b. Herpesviruses
	c. Arboviruses
	d. Retroviruses
Q. No. 44	The time from adsorption of a <u>bacteriophage</u> to release of newly synthesized bacteriophage is generally
	a. 1-5 minutes
	b. 20-40 minutes c. 1-4 hours
	d. 6-24 hours
Q. No. 45	Viral surface proteins have various roles to play for their survival and in pathogenesis. Which of the
	following statement is most accurate about them?
	a. Misfolded viral surface proteins cause prions disease.
	 b. They act as proteases that degrade cellular proteins leading to cell death. c. They are the polymerases that synthesize viral messenger RNA.
	d. Neutralizing antibodies are formed against viral surface proteins .
Q. No. 46	The human virus that has been associated with Burkett's lymphoma (a malignant tumor of the jaw) is:
	a. Cytomegalovirus
	b. Human papilloma virus (HPV)
	c. Retroviruses
Q. No. 47	d. Epstein- Barr virus A girl who pricked her finger while pruning some rose bushes develops a local pustule that progresses to
Q. 140. 47	an ulcer. Several nodules then develop along the local lymphatic drainage. The most likely agent is
	a. Aspergillus fumigatus
	b. Sporothrix schenckii
	c. Cryptococcus neoformans
0.1- 10	d. Candida albicans
Q. No. 48	Which one of the following is not the characteristics of histoplasmosis? a. Person to person transmission
-	b. Specific geographic distribution
	c. Yeasts in tissue
-	d. Mycelial phase in the soil
Q. No. 49	How can we identify Aspergillosis in tissue?
	a. Meta granules
	b. Budding cells
	c. Pseudohyphae d. Septate hyphae
Q No 50	d. Septace hypnice What is the medical term for a fungal infection in humans?

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	A Mycosis
	h. Fungosis
a second	c. Mucorsis
Sho	d. None of These No. 51 Which one of the term
	The following of the following
	a. worldwide outbreak of disease
	and the second sec
	C. disease that is easily spread d. vector of infection
Q. N	
	a. disease spread while staving at a hear indisease?
	 a. disease spread while staying at a hospital b. disease that is spread hospital
	 b. disease that is spread by direct contact c. disease that is easily spread d. inanimum children and the spread
O.N	d. inanimate chiest spread
Q. N	rono is primarily a disease the second
	the contral nervous system
	so invacios and skelaton
Q. N	d. the respiratory system
10000	which one of the following are bill at
	a. Sensory neurons b. Motor neurons
	c. Receptors
	d. Effectors
Q. No	9. 55 Which one of the following is causaling the second secon
	a. Rhabdo virus
	b. Pox virus
	c. Ebola virus d. Rhino virus
Q. No	
	A. 56 Which one of the following virus causes Upper and lower respiratory tract infections? A. Influenza virus Device a construction of the following virus causes Upper and lower respiratory tract infections?
	D. Polio virus
	c. Paramyxo virus
Q. No.	d. Flavi virus
4	 Which one of the following is the causative agent for the ringworm? Epidermatophyton
	b. Tinea Nigra
	c. Myecetoma
0.1	d. Histoplasma
Q. No.	and of the fullowing is known as Dave Cand
	a. Sporotrichosis b. Chromomycosis
	c. Myecetoma
	d. Tinea versicolor
Q. No. :	59 Which of the following is the most correct state
	a. It is characterized by infectious granulomas and abscesses
	and a me subclase is more incoucht in coldar mations
	d. The mycoses are usually suggested and
Q. No. 6	What are the primary sites of invasion in eumycotic mycetoma? A Network and fore
	and interest unit inter
and the second second	b. Hair shafts
	c. Legs and hands
Q. No. 61	d. Chest and back
	Which one of the following chemical component is only present in wall of fungi? a. Peptidoglycan
	b. Ergosterol
	c. Chitin
0 No 62	d. Zymosterol
Q. No. 62	and the source in the source of the source o
	a. Cryptococcus neoformans b. Sporothrix
	c. Histoplasma capsulatum
	d. Malassezia furfur
Q. No. 63	The primary mode of transmission of poliomyelitis is
	a. Oral route
	b. Blood
	c. Milk
	d. Person to person
	and the state of the descent has
Q. No. 64	Mycotoxins are produced by a. Bacteria

	c. Algae
	d. Protozoans
No. 65	Rabies virus is
	a. Naked RNA virus b. Naked DNA virus
	e. Enveloped RNA virus
	A Countered DNA VIRUS
21. 22	m RNA synthesis from DNA is termed
No. 66	a. Transcription
	b. Transformation
	c. Translation
). No. 67	Which of the following is called serum replaced
	a. HCV
	b. HAV
	d. HIV
Q. No. 68	AIDS disease is caused by a virus which belongs to
Quine ou	a. Retro virus group
	b. Rhabdo virus group
	c. Hepatitis virus group
(D. N) (D	d, Adeno virus group HIV can be transmitted through
Q. No. 69	a. Blood
	b. Semen
	c. Vaginal fluid
	d. All of these
Q. No. 70	Koplic's spots will develop in
	a, HIV b, Measles
	c. Mumps
	d. Rubella
Q. No. 71	Pus-forming forms are called as
	a. Pyoderm b. Pyogenic
	c. Pyrogen
	d. None of the above
Q. No. 72	Aflatoxin is produced by
	a. Aspergillus sps
	b. Penicillium sps
	c. Alternaria sps d. None of these
Q. No. 73	In fluenza virus contains
2.110.10	a. Eight segments of RNA
	b. Two strands of RNA
	c. Single RNA d. None of these
0.11.71	
Q. No. 74	a. Sand fly
	b. Ticks
	c Andes activity
	d. Culex Which one of the following repeating subunits are responsible to determine the shape of the viruses?
Q. No. 75	a. Capsid
	b. Capsule
	c. Capsomers
	d. Envelope
Q. No. 7	The fungus candida causes? a. vaginal yeast infections
	b. thrush of the mouth
	c. infections in Canadians
	d, a and b
Q. No. 7	7 Mumps is a viral infection that affects what part of the body?
	a. my humps
	b, the ears
	c. the reproductive organs
	d. the parotid glands Which one of the following is responsible to spread infection by direct contact?
Q. No. 7	
	a. Water
	b. Soil

	c. Contaminated food
-	d Sowaca
570	Which one of the following
0 No. 79	a. Fluconazole
	Which one of the following drug of choice is required for most systemic fungal infection? Amphotericin
	c. Caspo fungin
	d. Griseofulvin
Q. No. 80	Immune response to fungal infection is the formation of
	a. Granulomas
	b. Granules
	c. Spores
	d. Conidia
Q. No. 81	If a cell is infected by a virus the calculated time to replicate it is approximately a. 12 hours b. 10 hours
	a. 12 hours
	b. 10 hours
	c. 8 hours
0.00	d. 4 hours
Q. No. 82	Which one of the following repeating only it
	Which one of the following repeating subunits are responsible to determine the shape of the viruses? a. Capsid b. Capsula
	c. Capsomers
O No 02	d. Envelope
Q. No. 83	Nucleic acid of the viruses contains:
	a. Deoxyribonucleic acid (DNA) only
	b. Ribonucleic acid (RNA) only c. Aminoacid
	d. Either DNA or RNA
Q. No. 84	Which one of the following is
	Which one of the following is correct option about size of yeast? a. 3 microns
	b. 5 microns
	c. I micron
	d. 6 micron
Q. No. 85	Which one of the following fungi do not exist as saprophytes?
	a. Cryptococcus
	b. Aspergillus c. Candida albicans
	d. Histoplasma
Q. No. 86	The proteins on the external surface of viruses serve several important functions. Regarding these
	proteins, which one of the following statements is most accurate?
	a. They are the antigens against which neutralizing antibodies are formed
	b. They are the polymerases that synthesize viral messenger RNA.
	 c. They are the proteases that degrade cellular proteins leading to cell death.
Q. No. 87	d. They are the proteins that regulate viral transcription. Regarding the tegument, which one of the following is most accurate?
2.110.01	a. It uncoats the virion within the phagocytic vesicle.
	b. It mediates the binding of the virion to the cell surface.
	c. It guides the viral core from the cytoplasm to the nucleus.
	 d. It is the location of proteins in the virion that act as viral transcription factors
Q. No. 88	The purified genome of certain viruses can enter a cell and elicit the production of progeny viruses (i.e.,
	the genome is infectious). Regarding these viruses, which one of the following statements is most accurate:
	 a. Their genome RNA has positive polarity. b. Their genome RNA is double stranded.
	 b. Their genome RNA is double-stranded. c. They have a polymerase in the virion .
	d. They have a segmented genome
Q. No. 89	Viruses can cause changes in individual cells that are visible in the light microscope after suitable staining.
	Which one of the following is most characteristic of the changes seen in rabies virusinfected cells?
1	a. Inclusion bodies in the cytoplasm of macrophages
and the second	b. Inclusion bodies in the cytoplasm of neurons
	c. Inclusion bodies in the nucleus of neurons
	d. Multinucleated giants cells composed of neurons
2. No. 90	Many viruses use the upper respiratory tract (mouth, nasopharynx) as their important portal of cotty. One
	feature of the portal of entry is that it is the site where the virus first infects and replicates. Which one of the
L Carro	following viruses is most likely to enter via the upper respiratory tract?
	a. Dengue virus
	b. Epstein-Barr virus
	C Hannahita A salara
	c. Hepatitis A virus d. Hepatitis B virus
Q. No. 91	d. Hepatitis B virus The term vertical transmission refers to:
Q. No. 91	

	c. transmission from mother to child .
	d transmission from one shild to another at school
Q. No. 92	Some viruses are known for their ability to cause perinatal infections. Which one of the following viruses is most likely to cause perinatal infections? a. Cytomegalovirus b. Epstein-Barr virus c. JC virus
	d. Norovirus
Q. No. 93	Which one of the following viruses that causes human disease has an animal reservoir? a. Cytomegalovirus b. Hepatitis C virus c. Smallpox virus d. Yellow fever virus
Q. No. 94	Viral cell are commonly cultured on? a. Nutrient agar b. Living cells c. Blood agar d. Chocolate agar
Q. No. 95	Virus don't replicate without their host because they do not contain? a. Cell wall b. Ribosome c. Enzymes d. Plasmid
Q. No. 96	A virus that can also infect bacterial cell? a. Oncholytic virus b. Onchogenic virus c. Bacteriophage virus d. Lysogenic virus
Q. No. 97	Name the scientist who discovers vaccine? a. A. Fleming b. L. pasture c. E. Jenner d. R. Koch
Q. No. 98	Which component of viral cell makes it receptor specific? a. Viral capsid b. Viral envelope c. Viral protein d. Viral nucleic acid
Q. No. 99	Identify the part of virus structure which surrounds the Genetic material? a. Viral capsid b. Viral envelope c. Viral protein d. Viral spikes
Q. No. 100	Capsid is made up of? a. Protein b. Lipids c. Carbohydrates d. Nucleic acid