

Virology Test Bank
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Q1-An 18-year-old man presented to the emergency department with a progressively worsening headache, photophobia, fever and vomiting. He diagnosed with aseptic meningitis. The most likely causative agent of the previous case belongs to the family:

- a. Retroviridae.
- b. Filoviridae.
- c. Paramyxoviridae.
- d. Picornaviridae

ANS:D

Q2-The currently available vaccine to prevent hepatitis A infection is:

- a. Live-attenuated vaccine
- b. Toxoid vaccine
- c. MRNA vaccine
- d. Subunit vaccine
- e. Inactivated vaccine.

ANS:E

Q3-The oncovirus that can be prevented by vaccination is:

- a. HIV
- b. Hepatitis E virus
- c. Hepatitis A virus
- d. Hepatitis C virus
- e. Human papillomavirus 16.

ANS:E

Q4-Which one of the following hepatic diseases is caused by a DNA virus and can be prevented by vaccination with viral surface antigen that provides protective immunity in the majority of immunized individuals?

- a. Hepatitis E.
- b. Hepatitis A.
- c. Hepatitis D.
- d. Hepatitis B.

ANS:D

Q5-Direct Acting Antiviral drug use in treatment of...?

ANS: Hepatitis C.

Q6-Which of the following viruses cause aseptic meningitis?

ANS: Coxsackievirus.

Q7-Which one of the following conditions is NOT associated with parvovirus B19 infection?

- a. Pure red cell aplasia in immunocompromised patients
- b. A mild illness with slapped cheek rash on a patient's face that mainly affect children
- c. Transient aplastic crisis in patients with chronic hemolytic anemia
- d. T-cell acute lymphoblastic leukemia
- e. Hydrops fetalis

ANS:D

Q8-Which of the following is correct regarding Poliovirus?

- a. inactivated(killed) vaccine is taken orally
- b. live-attenuated vaccine is taken IM
- c. poliovirus is a non-enveloped virus so it can resist inactivation
- d. acquisition of the virus occurs via respiratory route
- e. muscle atrophy is due to direct damage on muscles

ANS:E

Q9-Which one of the following viruses replicates in the nucleus?(**maybe not required**)

- a. HAV
- b. HBV
- c. HCV
- d. HDV
- e. HEV

ANS:B

Q10-The most common cause of Aseptic Meningitis is?

- a. Picornaviruses
- b. Paramyxovirinae
- c. Rubiviruses
- d. Enteroviruses
- e. Mumps

ANS:D

Q11-Which of the following is correct regarding treatment of HCV?

- a. there's no treatment for HCV
- b. antiretrovirals are effective against HCV
- c. Direct acting antivirals are the best to treat chronic HCV
- d. All of the above
- e. None of the above

ANS:C

#The most common cause of aseptic meningitis is:

Ans: Enterovirus

Q12-Which of the following viruses causes herpangina?

- a. Picornaviruses
- b. Paramyxovirinae
- c. Rubiviruses
- d. Coxsackieviruses

ANS:D

Q13-Which one of the following viruses is acid-labile?

- a. Rhinovirus
- b. Poliovirus
- c. Human enterovirus 71
- d. Coxsackie virus
- e. Echovirus

ANS:A

Q14-Which one of the following is a Double-Stranded RNA virus?

- a. HBV
- b. HIV
- c. Astrovirus
- d. Rotavirus(reovirus)
- e. Picornavirus

ANS:D

Q15-Which hepatitis viruses doesn't have an effective vaccine?

- a. HAV+HBV+HCV
- b. HCV+HBV
- c. HAV+HCV
- d. HCV+HEV
- e. HEV+HCV+HDV

ANS:D

Q16-Complete closed circular DNA is seen in the life cycle of which one of the following hepatitis viruses?

- a. HAV
- b. Delta agent
- c. HCV
- d. HBV
- e. HEV

ANS:D

Q17-Which one of the following combinations regarding viral hepatitis routes of transmission is false?

- a. Hepatitis A virus: consumption of contaminated shellfish
- b. Hepatitis E virus: blood transfusion
- c. Hepatitis C virus: injection drug use
- d. Hepatitis B virus: vertical transmission
- e. Hepatitis B virus: sexual transmission

ANS:B

Q18-What is the cause of an influenza pandemic

- a. antigenic shift
- b. antigenic drift

ANS:A

Q19-The most prevalent blood borne virus in Jordan is...? **Not require**

- a. HPV
- b. HIV
- c. HBV
- d. HCV
- e. HAV

ANS:C

Q20-The most common cause of adult gastroenteritis is

- a. astrovirus
- b. norovirus
- c. rotavirus
- d. None of the above

ANS:B

Q21-All of the following factors helped to achieve the successful eradication Of smallpox from the human population, EXCEPT: (**most important question**)

- a. The absence of a persistent carrier state of variola virus.
- b. The antigenically unstable nature Of variola virus.
- c. The absence of asymptomatic cases of smallpox.
- d. The highly efficient nature of smallpox vaccine.
- e. The absence Of an animal reservoir for variola virus.

ANS:B

Q22-Which vaccine is a protein subunit vaccine?

- a. Hepatitis B virus (HBV)
- b. Hib
- c. Pneumovax
- d. MMR

ANS:A

Q23-Which of the following viruses possess an envelope?

- a. Herpesvirus
- b. Reovirus
- c. Tobacco mosaic virus
- d. Papillomavirus

ANS:A

Q24-Hepatitis delta virus is unique in that...?

- A. infectivity requires HBV virus
- B. it has an RNA genome that is replicated by a replicase supplied by a coinfecting helper virus
- C. its mRNA is transcribed by a transcriptase supplied by a helper virus
- D. the virion contains a reverse transcriptase provided by a helper virus
- E. it encodes a protein delta antigen (HDAg) that replaces helper virus glycoproteins in the envelopes of helper virus particles

ANS:A

Q25-The clinical disease that is not related to herpes simplex virus type 1 infection is...?

- a. Postherpetic neuralgia
- b. Pharyngitis
- C. Mononucleosis
- d. Cold sores
- e. Gingivostomatitis

ANS:A

Q26-CD21 is the cellular receptor for?

- a. Human immunodeficiency virus type 1 (HIV-1)
- b. Epstein-Barr virus
- c. Kaposi's sarcoma herpesvirus
- d. Parvovirus B19
- e. Hepatitis B virus (HBV)

ANS:B

Q27-Acute hemorrhagic cystitis is?

- a. A self-limited disease
- b. Complicated by glomerulonephritis
- c. Characterized by microscopic hematuria
- d. Caused by adenoviruses 40 and 41
- e. Usually accompanied by fever and hypertension

Q28-Which one of the following is considered a defective virus?

- A. HDV
- B. HBV
- C. HCV
- D. HAV
- E. HEV

ANS:A

Q29-The quadrivalent HPV (human papillomavirus) vaccine contains the following types?

- A. HPV₆, HPV₁₁, HPV₁₆, HPV₁₈
- B. HPV₁, HPV₂, HPV₅, HPV₈
- C. HPV₁, HPV₅, HPV₁₆, HPV₁₈
- D. HPV₆, HPV₁₁, HPV₃₁, HPV₃₃
- E. HPV₁₆, HPV₁₈, HPV₃₁, HPV₃₃

ANS:A

Q30-The most common cause of common cold is:

- A. Rhinovirus
- B. Influenza Virus C
- C. Parainfluenza Virus 1
- D. Metapneumovirus
- E. - Adenovirus

ANS:B

Q31-The most common sexually transmitted infection (STI) worldwide is ?

ANS: HPV

Q32-Which one of the following viruses is NOT transmitted via the sexual route?

- a. Human immunodeficiency virus type 1 (HIV-1)
- b. Hepatitis B virus (HBV)
- c. Hepatitis C virus (HCV)
- d. Hepatitis E virus (HEV)
- e. Human T-cell lymphotropic virus type 1 (HTLV-1)

ANS:D

Q33-Direct-acting antivirals are successful in the treatment of?

- a. HIV-1
- b. HIV-2
- c. Hepatitis C
- d. Hepatitis B
- e. Hepatitis A

ANS:C

Q34-The polyomavirus JC is the causative agent of?

- a. Molluscum contagiosum
- b. Hemorrhagic cystitis
- C. Merkel cell carcinoma (MCC)
- d. Progressive multifocal leukoencephalopathy (PML)
- E. Erythema infectiosum (fifth disease)

ANS:D

Q-35 Which one of the following statements regarding influenza is TRUE?

- a. The vaccine confers life-long immunity
- b. Type C is associated with pneumonia
- c. It is restricted to the upper respiratory tract
- d. Pandemics occur due to antigenic shift
- e. Type A is restricted to humans

ANS:D

Q36-In coronavirus infection, the highest mortality rate is seen in:

- A- Middle East respiratory syndrome (MERS)
- B. COVID-19
- C. NL63 infection
- D. OC43 infection
- E. Severe acute respiratory syndrome (SARS)

ANS:A

37-In human papilloma virus-related oropharyngeal carcinoma, the majority of cases are caused by:

- A. HPV-16 and 18
- B. HPV-1
- C. HPV-2
- D. HPV-6
- E. HPV-11

ANS:A

Q38-Coronavirus is transmitted by ?

- A. Sexual intercourse
- B. Food
- C. Blood transfusion
- D. Mosquitoes.
- E. Respiratory droplets

ANS:E

Q39-Rhinovirus is:

Answer: +ssRNA virus with non-segmented genome

Q40-The methods that is used for diagnosis of influenza is:

- a. ELISA
- b. Flow Cytometry
- C. Antigen testing
- D. PCR
- E. C+D

ANS:E

Q41-Deafness, cataract, and congenital heart disease is the classic triad for:

- A. Congenital rubella syndrome
- B. Chikungunya fever
- C. Neonatal hepatitis B
- D. Neonatal hepatitis C
- E. Erythema infectiosum

ANS:A

Q42-The nonavalent vaccine of the HPV works against?

- a. HPV 16, 18
- b. HPV 11,6
- c. HPV 6,11,16,18
- d. HPV 6,11,16,18,31,33,45,52,58

ANS:D

Q43-Congenital rubella syndrome is associated With...?

- a. Cataracts+Deafness
- b. Acute arthropathy
- c. Aseptic meningitis
- d. None of the above

ANS:A

Q44-An ulcerative lesion on 3rd molar region with Koplik Spot this is?

- a. pathognomonic of German measles
- b. an early diagnosis of German measles
- c. a definitive diagnosis of German measles
- d. All of the above are correct

ANS:A

Q45-Which one of the following has the highest mortality rate in the middle east region

- a. SARS
- b. MERS
- c. HIV
- d. HBV
- e. Influenza

ANS:B

The END Good Luck