

- 1. Regarding Human Immunodeficiency Virus, all of the following statements are true EXCEPT:**
  - a) HIV genome has three structural genes: gag, pol, and env.
  - b) AIDS is the end stage of chronic viral infection caused by HIV
  - c) The main routes of transmission is through blood and sexual contact
  - d) Latent infection period lasts only 1.5 years maximally \*
  - e) The virus infects T-helper cells (CD4-positive)
  
- 2. Regarding Human Immunodeficiency Virus, all of the following statements are true EXCEPT:**
  - a) Contain RNA genome
  - b) Can be best diagnosed by isolation of the virus in tissue culture \*
  - c) AIDS is characterized by decrease in the number of CD4+ cells in the circulation
  - d) Can be transmitted vertically from mother to fetus
  - e) The virus is characterized by presence of reverse transcriptase enzyme
  
- 3. Regarding viral infections of skin and mucus membranes, all of the following statements are true EXCEPT:**
  - a) measles virus is a paramyxovirus
  - b) measles virus causes maculopapular rash
  - c) subacute sclerosing pan encephalitis is extremely serious and rare complication of measles
  - d) the greatest risk of congenital rubella syndrome occurs in the last trimester of pregnancy \*
  - e) rubella vaccine is contra-indicated during pregnancy
  
- 4. Regarding herpes simplex viruses, all of the following statements are true EXCEPT:**
  - a) Enveloped viruses with dsDNA genome
  - b) HSV-1 causes latency in the trigeminal ganglion and HSV-2 in the sacral ganglion
  - c) Viral reactivation can be induced by stress
  - d) HSV encephalitis is mostly caused by HSV-2 \*
  - e) Viral infection can be diagnosed by detecting viral antigens in vesicular scraping
  
- 5. Regarding viruses causing vesicular rash, all of the following statements are true EXCEPT:**
  - a) Zoster is caused by reactivation of varicella virus infection
  - b) Chicken pox is only restricted to one area of the skin \*
  - c) Varicella virus can cause congenital malformation including limb hypoplasia
  - d) HSV-2 is mainly transmitted sexually
  - e) Group A Coxsackievirus causes Herpangina

- 6. All of the following characteristics of rubella resemble those of measles EXCEPT:**
- Virus causes viremia
  - ssRNA virus
  - Koplik's spots \*
  - Maculopapular rash
  - Effective vaccination
- 7. Regarding rabies virus, all of the following statement are true EXCEPT:**
- The virus produces Negri bodies in the infected epithelial cells \*
  - The virus is ssRNA with negative sense
  - There is only one antigenic type
  - Vaccines for human use contain only inactivated virus
  - Most cases develop from the bite of rabid dog
- 8. Regarding prevention and treatment of viral infections, all of the following statements are true EXCEPT:**
- Lamivudine is a nucleoside analog
  - Amantadine blocks viral uncoating of influenza virus
  - Acyclovir is a non-nucleoside analogue \*
  - MMR is a live attenuated virus vaccine
  - Interferon may be used for treating HBV and HCV patients
- 9. Regarding Congenital Viral Infections, All of the following statements are true Except:**
- Rubella virus and parvovirus are transmitted only transplacentally
  - HIV, CMV and HBV may be transmitted by more than one way
  - 100% risk of congenital rubella infection occurs in 13 – 16 weeks \*
  - Rubella infection can be prevented by a live attenuated vaccine
  - 70 IU/ml is considered a good titre of anti-rubella antibodies
- 10. Regarding Congenital Viral Infections, All of the following statements are true Except:**
- Congenital CMV infection is more common than rubella right now
  - CMV is not teratogenic virus
  - Cytomegalic inclusion disease may include myocarditis
  - Congenital varicella syndrome may include hypoplasia of limbs
  - Infants born to HBeAg-positive mothers have a 10-20% risk of perinatal acquisition of the virus \*
- 11. Regarding Human Immunodeficiency Virus, All of the following statements are true Except:**
- HIV genome includes gag, pol and env genes
  - HIV provirus integrates into host DNA using cellular enzyme \*
  - HIV can be transmitted through contaminated needles
  - During latent period, there is gradual decline of CD4+ Cells
  - There is good correlation between the number of CD4+ Cells and the clinical presentation

**12. Regarding Human Immunodeficiency Virus, All of the following statements are true Except:**

- a) Quantitative PCR is used for initial diagnosis of AIDS patients \*
- b) Viral load is a prognostic indicator of the rate of progression to AIDS
- c) Reverse transcriptase has no proofreading activity
- d) Any stimulation of an immune response causing activation of resting T cells also activates HIV replication
- e) Anti-retroviral drugs includes reverse transcriptase and protease inhibitors

**13. Regarding Tumor Viruses, All of the following statements are true Except:**

- a) Retinoblastoma gene is considered as a tumor suppressor
- b) Oncogenesis is a multistep process
- c) HPV E6 and E7 are involved in cervical cancer
- d) HBV and HCV may be complicated by hepatocellular carcinoma
- e) Transformed cells are anchorage dependent \*

**14. Regarding Tumor Viruses, All of the following statements are true Except:**

- a) HBV x protein was shown to impair DNA repair mechanisms
- b) HPV-16 and -18 are associated with benign tumors \*
- c) Human herpes virus 8 (HHV-8) is associated with Kaposi's sarcoma
- d) p53 is considered to be the guardian of the genome
- e) EBV is associated with nasopharyngeal carcinoma

**15. Regarding Human Immunodeficiency Virus, all of the following statements are true EXCEPT:**

- a) HIV genome has three major genes: Gag, Pol and Env
- b) Viral gp120 binds CD4 molecule on helper T cells
- c) HIV can be transmitted during delivery
- d) Viral integration is mediated by cellular enzyme \*
- e) Opportunistic infections may include CMV Chorioretinitis

**16. Regarding viral infections of skin and mucus membranes, all of the following statements are true EXCEPT:**

- a) measles virus has ssRNA genome
- b) measles virus causes maculopapular rash
- c) congenital rubella syndrome (CRS) may involve hearing problems
- d) the greatest risk of CRS occurs in the last trimester of pregnancy \*
- e) rubella vaccine is not indicated during pregnancy

**17. Regarding human parvovirus, all of the following statements are true EXCEPT:**

- a) Parvovirus genome is ssDNA molecule
- b) Cellular receptor of the virus is the blood group P antigen
- c) The virus replicates in the resting cells \*
- d) Arthritis is common problem in adult females
- e) Edema in hydrops fetalis occurs as a result of heart failure

**18. Regarding herpes simplex viruses, all of the following statements are true EXCEPT:**

- a) Glycoprotein gH is responsible for release of the virus
- b) HSV-1 causes latency in the trigeminal ganglion
- c) Viral reactivation can be induced by stress
- d) HSV encephalitis is mostly caused by HSV-2 \*
- e) Viral infection can be diagnosed by detecting viral antigens

**19. Regarding viruses causing vesicular rash, all of the following statements are true EXCEPT:**

- a) Zoster is caused by reactivation of varicella virus infection
- b) Chicken pox is only restricted to one or few dermatomes \*
- c) The fetal varicella syndrome involves skin scarring
- d) Postherpetic neuralgia is the most common complication of zoster
- e) Varicella zoster virus is only one antigenic type

**20. Regarding prevention and treatment of viral infections, all of the following statements are true EXCEPT:**

- a) Lamivudine is a nucleoside analog
- b) Amantadine blocks viral uncoating of influenza virus
- c) Rhinovirus infection can be prevented by vaccination \*
- d) Hepatitis A vaccine is a killed virus vaccine
- e) Interferon may be used for treating HBV and HCV patients

**21. Regarding Human Immunodeficiency Virus, all of the following statements are true EXCEPT:**

- a) HIV genome has three structural genes: gag, pol, and env.
- b) The virus is characterized by presence of reverse transcriptase enzyme
- c) The main routes of transmission is through blood and sexual contact
- d) Latent infection period lasts about 8 – 10 years
- e) The virus infects red blood cells \*

**22. Regarding Human Immunodeficiency Virus, all of the following statements are true EXCEPT:**

- a) Contain DNA genome \*
- b) Can be best diagnosed by antigen / antibody detection using ELISA
- c) AIDS is characterized by decrease of CD4+ cells
- d) Can be transmitted vertically from mother to fetus
- e) AIDS is the end stage of chronic viral infection caused by HIV

**23. Regarding viral infections of skin and mucus membranes, all of the following statements are true EXCEPT:**

- a) measles virus is a paramyxovirus
- b) measles virus causes vesicular rash \*
- c) Congenital rubella syndrome involves eyes, ears and heart problems
- d) Rubella virus causes maculopapular rash
- e) rubella vaccine is contra-indicated during pregnancy

- 24. Regarding herpes simplex viruses, all of the following statements are true EXCEPT**
- Enveloped viruses with dsRNA genome \*
  - HSV-1 causes latency in the trigeminal ganglion
  - HSV-2 can cause genital ulcers
  - HSV encephalitis is mostly caused by HSV-1
  - Viral infection can be diagnosed by detecting viral antigens in vesicular scraping
- 25. Regarding viruses causing vesicular rash, all of the following statements are true EXCEPT**
- Zoster is caused by reactivation of parvovirus B19 infection \*
  - Herpes zoster is only restricted to one area of the skin
  - Varicella virus can cause congenital malformation including limb hypoplasia
  - VZV is mainly transmitted by respiratory route
  - Group A Coxsackievirus causes hand foot and mouth disease
- 26. Regarding Rubella infection, all of the following are true EXCEPT one:**
- The greatest risk of congenital rubella syndrome occurs in the first trimester of pregnancy
  - Infection is transmitted mainly by respiratory droplets
  - Rubella is a childhood disease
  - Booster vaccination is recommended for females before marriage
  - There is effective treatment for congenital rubella syndrome \*

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**Veto**

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أبو عمر

الرجاء عدم إحضار الأسئلة للكلية ... أتمنى