SAMPLE QUESTIONS FOR VIROLOGY MCQ’s (MAC 221)

Q-1  All the following viruses are transmitted by respiratory routes EXCEPT ONE:

A) Human papilloma virus  
B) Rhinovirus  
C) Adenovirus  
D) Measles virus  
E) VZV

Q-2  All the following viruses are disseminated throughout the body EXCEPT ONE:

A) HIV  
B) HBV  
C) Rabies virus  
D) Yellow fever virus  
E) Human papilloma virus

Q-3  An important defense function of cytotoxic T lymphocytes in viral infection is to:

A) Lyse virus infected cells  
B) Fragment viral nucleic acid by nucleases  
C) Neutralize free virus particles  
D) Block cell respiration  
E) Lyse viral capsid

Q-4  An abortive infection is one in which:

A) The infected cells are killed  
B) **Progeny virus is not produced**  
C) Transplacental infection of the fetus occurs  
D) Episodes of virus multiplication alternate with periods when no infectious virus is present and no multiplication occurs  
E) Cell multiplication is stopped

Q-5  All of the following association are true EXCEPT ONE:

A) EBV can cause nasopharyngeal carcinoma  
B) CMV causes heterophil-negative mononucleosis  
C) Mumps virus can cause meningitis  
D) Poliovirus can cause paralytic disease  
E) **Astrovirus causes gastroenteritis only in adults**
Q-6 Each of the following diseases is associated with infection by picornaviruses **EXCEPT ONE**:

A) Myocarditis  
B) Hepatitis  
C) Meningitis  
D) **Mononucleosis**  
E) Herpangina

Q-7 Which one of the following statements concerning mumps is **CORRECT**?

A) **The testes, ovaries and pancreas can be involved**  
B) There is no vaccine against mumps  
C) Passive immunization is the only means of preventing the disease  
D) The diagnosis is made only on clinical grounds, since the virus cannot be grown in cell culture and serologic tests are inaccurate  
E) Second episodes of mumps can occur, since there are 2 serotypes

Q-8 Each of the following statements concerning HAV is correct **EXCEPT ONE**:

A) The initial site of viral replication is the GIT  
B) **The diagnosis is usually made by isolating the virus in cell culture**  
C) HAV commonly causes asymptomatic infection in children  
D) Immunoglobulin is used to prevent the disease in exposed persons  
E) It is a member of the family picornaviridae

Q-9 All the following viruses belong to the Picornaviridae **EXCEPT ONE**:

A) Coxsackievirus group A  
B) Rhinoviruses  
C) Poliovirus  
D) **Rabies virus**  
E) Echovirus

Q-10 Acute hemorrhagic conjunctivitis is caused by which of the following viruses:

A) Coronavirus  
B) Reovirus  
C) Rhinovirus  
D) **Enterovirus**  
E) RSV
Q-11 Epidemic pleurodynia and mycarditis are both caused by:

A) Group B Coxsackievirus
B) Polymavirus
C) RSV
D) Reovirus
E) CMV

Q-12 All the following are acceptable specimens for the isolation enterovirus EXCEPT ONE:

A) Feces
B) CSF
C) Throat secretions
D) Urine
E) Skin lesion

Q-13 When infectious mononucleosis is suspected, all the following tests can be useful EXCEPT ONE:

A) IgM antibody to EB-VCA
B) IgG antibody to EB-VCA
C) Antibody to EB-NAs
D) Culture
E) Heterophil antibody

Q-14 Which of the following statements best describes rotavirus?

A) It is an RNA virus
B) Tests for detection of antigen are rarely useful
C) Culture is the routine method of confirming infection
D) It is rarely a nosocomial pathogen
E) Person-to-person transmission is rare

Q-15 Infectious mononucleosis is characterized by which of the following statements?

A) It is most prevalent in children less than 12 years old
B) It is cause by rhabdovirus
C) The causative pathogen is an EBV
D) Affected person respond to treatment with the production of heterophil antibodies
E) Ribavirin is the treatment of choice
Q-16  Certain viruses have been associated with birth defects, these teratogenic viruses include all the following EXCEPT:

A) Rubella virus  
B) CMV  
C) VZV  
D) Parvovirus B19  
E) Rhinovirus

Q-17  The most sensitive method of detecting infection by CMV in the newborn is:

A) Isolation of virus  
B) Identification of characteristic cells in gastric secretions  
C) Detection of IgM antibody by IF  
D) Direct detection of antigen by ELISA  
E) Detection of complement fixing antibodies

Q-18  Which of the following is a segmented ds-RNA virus?

A) Togavirus  
B) HAV  
C) Arenavirus  
D) Rotavirus  
E) Parvovirus

Q-19  All the following statements about cytomegalovirus infection are true EXCEPT:

A) It can cultured from the RBCs of infected persons  
B) It can be transmitted transplacently  
C) It can be activated by immunosuppressive agents  
D) It will rarely cause clinically apparent disease in immunocompetent hosts  
E) It can cause retinitis

Q-20  All the following statements about human rotaviruses are true EXCEPT that they:

A) Produce an infection that is seasonally distributed peaking in fall and winter  
B) Produce cytopathic effects in many conventional cell culture systems  
C) Are non-enveloped-RNA viruses possessing a double shelled capsid  
D) Can be sensitively and rapidly detected in stools by the ELISA technique  
E) Have been implicated as a major etiologic agent of infantile gastroenteritis.