

Rajiv Gandhi University of Health Sciences, Karnataka

Fellowship Examination – 23-Aug-2024

[Time: 3 Hours]**[Max. Marks: 100]**

VIROLOGY - PAPER – II

QP Code: 4374

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

Answer All The Questions**10 X 10 = 100 Marks**

1. Brain tissue is obtained at autopsy from a lady who died of rabies. What procedures could be used to confirm the presence of rabies virus in the brain tissue. What precautions are to be followed.
2. A Health Care Worker had needle stick injury. He comes to the lab after 1 month. What assays will be appropriate for this case. Discuss in detail the algorithm for HIV diagnosis and NACO guidelines.
3. Discuss the properties of HPV-16 virus that promote the development of cervical cancer. Discuss in detail the prevention and diagnosis of the same.
4. What are the properties of JC virus that promote development of PML and why is this disease prevalent in patients with AIDS.
5. Discuss the adenoviruses prevalent in India. Add a note on epidemiology and lab diagnosis of the same.
6. Two major viral sources of viral gastroenteritis are rotaviruses and calicivirus compare and contrast these two groups of viruses and attempts to control them.
7. Describe the structure and replication of corona viruses and their association with respiratory disease in humans.
8. Discuss the association of Hepatitis B virus (HBV) with hepatocellular carcinoma and the measures available to prevent or control HBV infection.
9. Write an essay about Ebola virus epidemiology, pathogenesis with a specific mention on how the gene products of this virus subvert the host immune response resulting in high mortality in humans.
10. Discuss in detail polio vaccines and strategies for eradication of polio in India.

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