QUESTION 3 Infectious Diseases
With which of the following viruses is cancer of the cervix most strongly associated?
A. Epstein-Barr virus (EBV).
B. Cytomegalovirus (CMV).
C. Human papilloma virus (HPV).
D. Human immunodeficiency virus (HIV).
E. Herpes simplex virus (HSV).

Associated with condyloma acuminatum (genital warts), squamous intraepithelial lesions and anogential malignancy including cervical, vaginal, vulval and anal carcinoma

Virology:
DNA virus
High risk HPV types 16 (70%) & 18 associated with cervical cancer
Not all infections with HPV type 16 & 18 progress to Ca
HPV-16 is the most commonly detected HPV type ass with anal cancer as well
HPV is also a risk factor for carcinoma of penis. 70% were type 16.
HPV 6 & 11 cause genital warts
Pathogenesis
Viral oncogenes E6 & 7 – interact with growth-regulating host cell proteins

Latest development is the HPV vaccine
Gardasil – administered IM, series of 3 injections over period of 6 months
Prevent infection with HPV types 16, 18, 6 & 11
Women who are already infected with one of the 4 HPV types targeted by vaccine were protected from clinical disease
Also prevent HPV 16/18 caused anal Ca

We all know the answer is C. HPV

\[^1\] \footnote{Wilkipedia word: Gardasil & Up to Date : HPV}