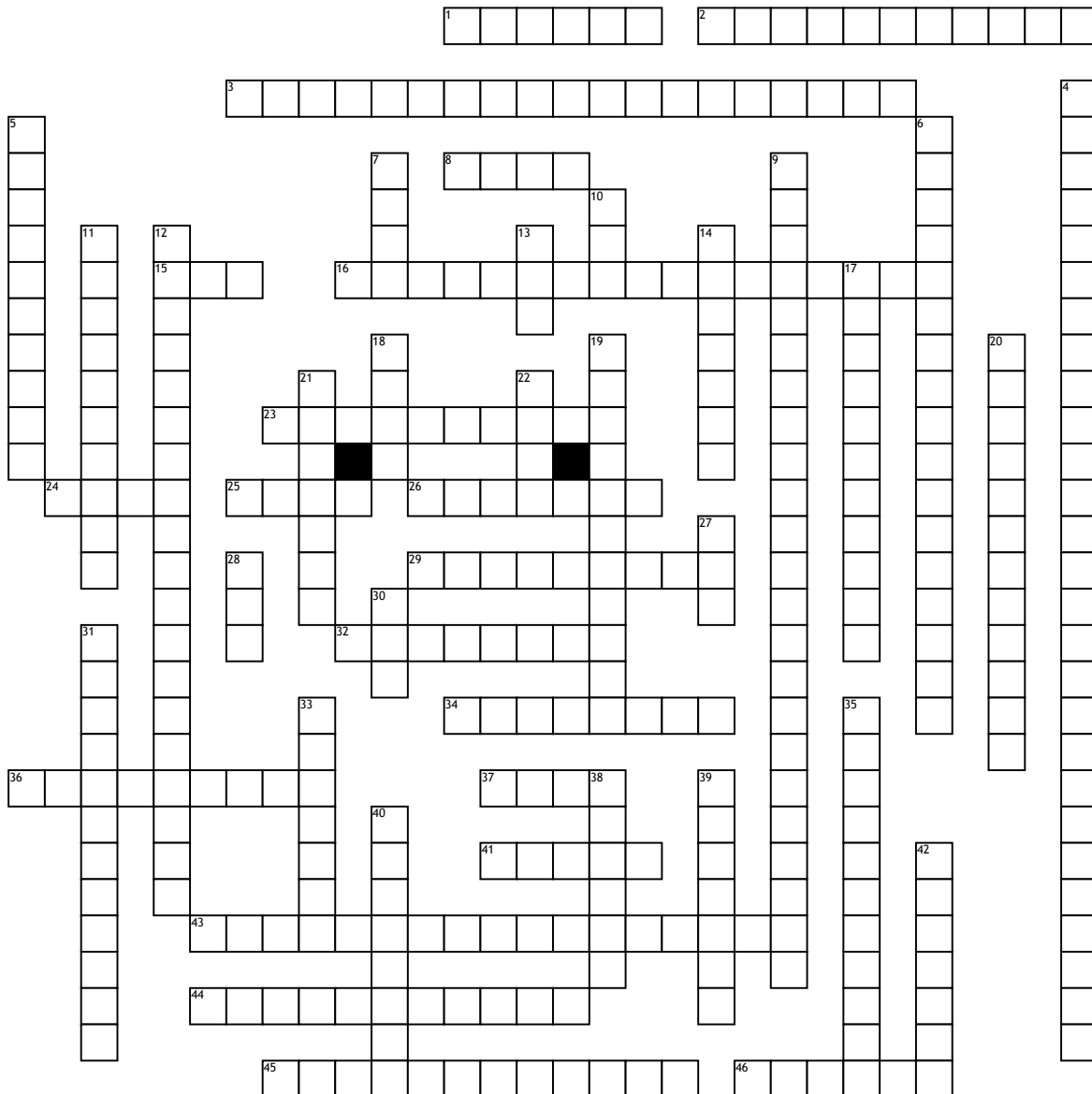


Name: _____

Date: _____

Human Immunodeficiency Virus



Across

1. HIV enters the host cell through ____ of its envelope membrane with the host cell membrane (3)
2. HIV's most powerful weapon that gives it the ability to overpower the immune system, drugs, and vaccines (2)
3. Mutations within the virus genome led to its escape from the immune system (2)
8. Most severe stage of HIV (1)
15. The causative agent for AIDS (4)
16. Most common spread route of infection worldwide (2)
23. PEP should be taken within ____ hours of possible HIV exposure (1)
24. ____ pH enhances HIV endocytosis and fusion with the host cell (3)
25. Mechanism by which the innate and adaptive immune system work to rid the body of HIV (2)
26. HIV does not cannot survive long or reproduce ____ the host cell (1)
29. HIV fusion inhibitors block ____ but do not block viral transmission from cell to cell (3)
32. Taking HIV ____ can lower the viral load and make the infection undetectable (1)
34. Off label use for taking PrEP to prevent HIV is known as (1)
36. PrEP medication takes ____ days to reach maximum protection for receptive vaginal sex and drug use (1)
37. In 2019 the male to ____ sexual contact transmission category made up 65% of new HIV diagnosis (1)

41. PrEP medication takes ____ days to reach maximum protection for receptive anal sex (1)
43. When someone with HIV, contracts another strain of the virus (1)
44. Term used to define individuals who are not able to detect HIV viremia for years (2)
45. Duration which HIV infection is present but the antibodies cannot be detected yet (2)
46. Main side effect of taking PEP (1)

Down

4. HIV derived from the original disease that infected chimpanzees in Central Africa (1)
5. HIV is transmitted through blood and ____ (1)
6. HIV is reproduced at high levels in this stage and is highly contagious (1)
7. The FDA has only approved PrEP to be taken ____ daily (1)
9. When people have AIDS, their immune system is so severely damaged that they experience numerous ____ (1)
10. HIV can be detected ____ days after infection (2)
11. The first FDA approved reverse transcriptase inhibitor for treating AIDS (4)
12. This stage is also known as the clinical latency. The virus is dormant, and most people are asymptomatic. (1)
13. Most individuals experience ____ - like symptoms after a few days to weeks from being exposed (2)
14. PrEP medication to prevent anyone from contracting HIV through sex or drug use (1)

17. HIV has a rapid viral ____, generating 1010 virions per day (2)
18. Medicine used to prevent getting an HIV infection (1)
19. It is not possible for HIV to survive outside of the ____ or the lymphatic tissue (2)
20. During reverse transcriptase, HIV makes one ____ per genome per replication round (2)
21. PrEP medication to prevent contracting HIV through sex, not for people born as female (1)
22. PrEP protects against HIV but does not protect against other ____ (1)
27. HIV's genome is encoded by ____ (4)
28. There are ____ number of steps in the HIV replication cycle (2)
30. HIV medication that should only be used in emergency situations (1)
31. HIV is diagnosed by a significant decrease in which cell count (2)
33. HIV can be transmitted by sharing ____ for drug use (1)
35. Could be the primary entry pathway for HIV infection into some host cells (3)
38. Without treatment, onset HIV infection can progress to AIDS within ____ years. (2)
39. Recombination of two or more HIV ____ occurs within the same individual (2)
40. Damage to this tissue is caused by constant activation of the immune system and virus replication (2)
42. As the CD4 levels decrease, the ____ levels increase (2)