



BIOLOGY

BOOKS - S DINESH & CO BIOLOGY (HINGLISH)

VIRUSES VIROIDS AND PRIONS

Mcq

1. The parasite that is nonliving outside a living cell but become living on entering it

A. Bacterium

B. Bacteriophage

C. Plasmodium

D. Yeast.

Answer: B



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2. RNA is genetic material in

A. T_2 virus

B. T_4 virus

C. SV - 400

D. TMV .

Answer: D



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3. Double stranded RNA is found in

A. Influenza Virus

B. Reovirus

C. Polio Virus

D. T_4 Virus

Answer: B



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4. Smallest virut is

A. Foot and Mouth virus

B. Alfalfa Mosaic virus

C. Pseudomonoas Pf

D. TMV.

Answer: A



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5. Who discovered virus to be nucleoprotein entity ?

A. Causius

B. Pasteur

C. Ivanowski

D. Bawden and Piria.

Answer: D



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6. Name the most common viral disease

A. Flu

B. Common Cold

C. Rabies

D. Chicken Pox.

Answer: B



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7. The term virus was coined by

A. Ivanowski

B. Beijerinck

C. Pasteur

D. Loeffler and Frosch.

Answer: C



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8. A viral disease known from prehistoric times is

- A. Pneumonia
- B. Small Pox
- C. Poliomyelitis
- D. Both B and C.

Answer: D



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9. Rabies or hydrophobia is a disease

A. Viral

B. Bacterial

C. Protozoan

D. Helminthic.

Answer: A



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10. Who discovered vaccination against small pox?

A. Jenner

B. Pasteur

C. Lister

D. Mayer.

Answer: A



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11. Extract of Tobacco with Mosaic disease was called *contagium vivum fluidum* by

A. Mayer

B. Ivanowski

C. Beijerinck

D. Pasteur.

Answer: C



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12. Who found poliomyelitis to be viral disease

?

A. Pasteur

B. Popper

C. De Herelle

D. Loeffler and Frosch.

Answer: B



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13. Bacteriophages were discovered by

A. Twort

B. De Herelle

C. Takahashi and Rawlins

D. Stanley.

Answer: A



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14. The term bacteriophage was coined by

A. Pasteur

B. Ivanowski

C. Saffarman and Morris

D. De Herelle.

Answer: D



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15. Name the virus which was crystallised for the first time

A. Parrot Fever Virus

B. Small Pox Virus

C. TMV

D. HIV.

Answer: C



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16. Who cultured the virus for the first time ?

A. Stanley

B. Enders

C. Takahashi and Rawlins

D. Issacs and Lindemann.

Answer: B



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17. The first virus to be cultured in human cells was

A. Polio Virus

B. Dengue Virus

C. Influenza Virus

D. HIV.

Answer: A



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18. Coliphages are viruses parasitising

A. Fungi

B. Alimentary canal

C. Escherichia coli

D. Yeast.

Answer: C



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19. Who discovered that RNA is genetic material in TMV ?

A. Gierere and Schramm

B. Issacs and Lindemann

C. Sinsheimer

D. Delbruck.

Answer: A



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20. The most mutabla virus is

A. Chicken Pox Virus

B. HIV

C. Influenza Virus

D. Dengue Virus

Answer: B



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21. Retroviruses and reverse transcriptase were discovered by

A. Sinsheimer

B. Stanley

C. Temin and Baltimore

D. Hershey and Chase

Answer: C



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22. Single stranded DNA as genetic material in

$\phi \times 174$ was discovered by

A. Delbruck

B. Safferman and Morris

C. Reed and Finley

D. Sanger

Answer: D



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23. TMV is

A. Helical Virus

B. Spherical Virus

C. Binal Virus

D. None of these

Answer: A



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24. Bacteriophage T_2 is

A. Filamentous

B. Cuboidal

C. Binal

D. Spherical.

Answer: C



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25. Which is absent in virus ?

A. Genetic material

B. Protein cover

C. Protoplasm

D. Both A and B.

Answer: C



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26. A virion is a

- A. Virus in stage of multiplication
- B. Virus attached to host cell nucleus
- C. Virus inside cytoplasm of host cell
- D. Virus in cell free environment .

Answer: D



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27. Peplomers are subunits of

A. Protein cover subunits of

B. Genetic material of virus

C. Viral envelope

D. Occasional enzyme found in viruses.

Answer: C



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28. Viral envelope is made of

A. Proteins

B. Lipide

C. Carbohydrates

D. All the above

Answer: D



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29. Host component of viral envelope is mostly

A. Lipids

B. Carbohydrates

C. Lipids and proteins

D. Lipids and carbohydrates.

Answer: C



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30. Capsid is

- A. Genetic material of virus
- B. Protein cover of virus
- C. Extra genetic material of bacterium
- D. House keeping genome of bacterium.

Answer: B



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31. A virus with as DNA is

A. $\phi \times 174$

B. Coliphage fd

C. Coliphage MS2

D. All the above

Answer: C



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32. Genomic nucleic acid is fragmented in

A. TMV

B. Influenza virus

C. HIV

D. Poliomyelitis virus.

Answer: B



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33. Virus having enzyme lysozyme is

- A. Retrovirus
- B. Influenza virus
- C. Bacteriophage
- D. Vaccinia virus.

Answer: C



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34. Reverse transcriptase occurs in virus

A. HIV

B. Influenza virus

C. Vaccinia virus

D. All the above

Answer: A



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35. Which of the following is a DNA containing plant virus

A. TMV

B. Cauliflower Mosaic Virus

C. Potato Mosaic Virus

D. Both B and C.

Answer: B



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1. Viruses are

- A. Obligate parasites
- B. Obligate saprophytes
- C. Partial parasites
- D. Facultative parasites.

Answer: A



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2. Viruses possess

A. DNA only

B. Nucleic acid, DNA or RNA

C. Protein only

D. Nucleic acid and protein

Answer: D



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3. Coliphage $\phi \times 174$ virus contains

- A. Singla stranded RNA
- B. Double stranded RNA
- C. Single stranded DNA
- D. Doule stranded DNA

Answer: C



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4. Single stranded DNA occurs as a genetic material in virus

A. T_2

B. T_4

C. $\phi \times 174$

D. Lambda.

Answer: C



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5. In viruses, the nucleic acid is

A. DNA

B. RNA

C. Both A or B

D. Either A or B .

Answer: D



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6. Bacteriophages kill

A. Fungi

B. All monerans

C. Bacteria

D. Viruses.

Answer: C



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7. Viroids differ from viruses in having

A. Satellite RNA packaged with viral genome

B. Naked DNA molecules

C. Naked RNA molecules only

D. Naked DNA packaged with viral genome

Answer: C



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8. Reverse transcriptase is

- A. RNA dependent RNA polymerase
- B. DNA dependent RNA polymerase
- C. DNA dependent DNA polymerase
- D. RNA dependent DNA polymerase.

Answer: D



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9. Tobacco Mosaic Virus (TMV) genome is

- A. Double stranded RNA

B. Single stranded RNA

C. Polyribonucleotide

D. Proteinaceous.

Answer: C



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10. Which of the following cannot be grown on artificial culture medium?

A. *Escherichia coli*

B. TMV

C. Aspergillus

D. Yeast.

Answer: B



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11. The first to isolate plant virus was

Or

The Tobacco mosaic virus was crystallized for first time by

A. Edward Jenner

B. Louis Pasteur

C. Andre Lwoff

D. W.M. Stanley

Answer: D



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12. Bacteriophage is

A. Mycoplasma

B. Virus

C. Rickettsia

D. Spirochaete

Answer: B



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13. A bacteriophage is

A. Virus attacking bacteria

B. Virus attacking virus

C. Bacterium attacking virus

D. stage in bacterial life cycle.

Answer: A



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14. In some viruses, RNA is present instead of DNA indicating that

A. Their nucleic acid must combine with host DNA before replication

B. They cannot replicate

C. There is no hereditary information

D. RNA can act to transfer heredity.

Answer: D



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15. Virus attacking blue-green algae is known as

A. Cyanophage

B. Coliphage

C. Bacteriophage

D. Zoophage.

Answer: A



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16. Virus consists of

A. Protein

B. Nucleic acid

C. Protein and RNA

D. Protein and nucleic acid

Answer: D



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17. Tailed bacteriophages are

A. Non-motile

B. Actively motile in water

C. Motile on bacterial surface

D. Motile on surface of plant leaves.

Answer: A



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18. RNA is genetic material in

A. Bacterium

B. Bacteriophage

C. TMV

D. Protozoan.

Answer: C



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19. Genetic material of influenza virus is

- A. Singla helix DNA
- B. Double helix DNA
- C. Double strand RNA
- D. Single strand RNA

Answer: D



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20. T-bacteriophages possess

- A. Rounded shape
- B. Tadpole shape
- C. Irregular shape
- D. Rhomboid shape.

Answer: B



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21. A bacteriophage possesses an enzyme

A. Protease

B. Urease

C. Dehydrogenase

D. Lysozyme.

Answer: D



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22. Genetic material of virus is

A. DNA

B. RNA

C. DNA or RNA but both

D. None of the above.

Answer: C



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23. The protein coat of virus is called

A. Capsid

B. Virion

C. Viroid

D. Bacterial wall

Answer: A



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24. Common genetic material of bacteriophage is

A. RNA

B. DNA

C. RNA and DNA

D. DNA and mRNA

Answer: B



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25. Virus was discovered by whom

A. Stanley

B. Ivanowski

C. Herelle

D. Beijerinck.

Answer: B



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26. Animal viruses mostly contain

A. RNA

B. RNA and DNA

C. DNA

D. None of the above.

Answer: C



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27. Which one is absent in viruses

A. Replication

B. Mutation

C. Protein synthesis

D. Energy liberation.

Answer: D



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28. Coliphage T_2 has

A. ds DNA

B. ss RNA

C. ds RNA

D. ss DNA

Answer: A



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29. A characteristic of viruses is

A. Without independent metabolism

B. With independent metabolism

C. Multiplication outside living cells.

D. Culture in cell free medium.

Answer: A



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30. Which one does not have cellular structure ?

A. Bacteriophage

B. PPLO

C. Bacterium attacking virus

D. Diatom

Answer: A



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31. Viruses parasitising bacteria are

A. Bacteriophages

B. Bacto-viruses

C. Retroviruses

D. Plasmids.

Answer: A



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32. An arthropod belonging to onychophora which possesses nephridia is

A. Papove Virus

B. Parvo Virus

C. Adeno Virus

D. Reo Virus

Answer: C



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33. Phages that show lysogenic cycle are called

- A. Lytic phages
- B. Temperate phages
- C. Virulent phages
- D. Avirulent phages.

Answer: B



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34. Genetic material of retrovirus is

A. ss RNA

B. ss DNA

C. ds RNA

D. ds DNA

Answer: A



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35. In some viruses, RNA is present instead of DNA indicating that

A. Ribocubica

B. Ribobinala

C. Ribovira

D. Deoxyvira

Answer: C



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36. Helical contractile sheath occurs in

- A. Bacteria
- B. Bacteriophage
- C. Riboviruses
- D. Fungi

Answer: B



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37. Sometimes when a virus attacks a bacterium, neither the virus multiplies nor the bacterium dies. This phenomenon is called as

- A. Lysogeny
- B. Adsorption
- C. Assimilation
- D. Viral stability

Answer: A



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38. The stage following infection by virus when virus particles cannot be observed is

- A. Infection phase
- B. Eclipse phase
- C. Maturation phase
- D. Lysogenic phase.

Answer: B



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39. Circular single stranded DNA occurs in bacteriophage

A. T_2, T_4

B. $\phi \times 174, M13$

C. $T_3, \phi 6$

D. δ, T_5

Answer: B



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40. Which of the following is an example of viral disease ?

- A. Leaf curl of Papaya
- B. Late blight of Potato
- C. Black rust of Wheat
- D. Red rot of Sugarcane

Answer: A



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41. In coliphage viruses the nucleic acid is

- A. RNA only
- B. DNA only
- C. DNA or RNA
- D. DNA and RNA

Answer: B



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42. Largest known virus is

A. TMV

B. T_1 phage

C. Citrus tristeza

D. $\phi \times 174$

Answer: C



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43. TMV has a size of

A. $50nm \times 10nm$

B. $100nm \times 20nm$

C. $300nm \times 18nm$

D. $500nm \times 24nm$

Answer: C



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44. Which of the following viruses has DNA ?

A. Tobacco Mosaic Virus

B. Cauliflower Mosaic Virus

C. Tomato Mosaic Virus

D. Potato Mosaic Virus

Answer: B



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45. Mature virus pariticle is

A. Virion

B. Viricide

C. Capsid

D. Peplomer

Answer: A



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46. RNA retroviruses have an enzyme that

A. Translates host DNA

B. Polymerises host DNA

C. Transcribes viral RNA to cDNA

D. Destroys host DNA

Answer: C



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47. Naked DNA virus is

A. Polio Virus

B. Adenovirus

C. Reovirus

D. Ribovirus.

Answer: B



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48. Polio Virus has

A. ss DNA

B. ds DNA

C. ss RNA

D. ds RNA

Answer: C



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49. Plant viruses mostly have

A. DNA

B. RNA

C. Both DNA and RNA

D. Coiled nucleolus.

Answer: B



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50. Potato leaf-roll disease is caused by

A. Mycoplasma

B. Virus

C. Microspores

D. Bacterium

Answer: B



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51. Reverse transcriptase

- A. Disintegrates host DNA
- B. Polymerises host DNA
- C. Translates host DNA
- D. Transcribes viral RNA to cDNA

Answer: D



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52. Viral capsid is made of

A. Carbohydrates

B. Lipid

C. Protein

D. All the above

Answer: C



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53. Enzyme needed for production of DNA from RNA template in certain viruses is

- A. RNA polymerase
- B. Reverse transcriptase
- C. DNA helicase
- D. DNA polymerase.

Answer: B



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54. Bovine spongiform encephalopathy disease is equal to

A. Kala-azar

B. Parkinson's disease

C. Creutzfeldt-Jekob disease

D. None of the above.

Answer: C



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55. Temin worked on virus

A. Rhinovirus

B. Dengue Virus

C. Herpes virus

D. Retrovirus

Answer: D



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56. Viruses cannot multiply of their own because they

A. Do not have sex organs

B. Lack genetic material

C. Lack cellular machinery to use its genetic material

D. None of the above.

Answer: C



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57. Viruses are living because

A. They can reproduce

B. They have protein synthesising
machinery

C. They have some genes

D. They are parasites

Answer: A



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58. The capsid of tobacco mosaic virus (TMV) has capsomeres numbering

A. 3120

B. 2130

C. 1230

D. 231

Answer: B



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59. Caulimo (Cauliflower Mosaic) viruses have

A. Double stranded DNA

B. Single stranded DNA

C. Single stranded RNA

D. Double stranded RNA

Answer: A



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60. What is true of viruses ?

- A. They are obligate intracellular parasites
- B. They are bigger than bacteria
- C. They are non-specific for their hosts
- D. They can reproduce in non-living medium.

Answer: A



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61. A polyhedral virus is

A. TMV

B. Polio Virus

C. Adenovirus

D. Vaccinia Virus

Answer: C



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62. Which is correctly matched ?

A. Ligase-Breaking DNA strand

B. Flame cells-Roundworms

C. Rous Sarcoma-Revetse transcriptase

D. Thyroxine -Adrenal

Answer: C



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63. TMV possesses

A. DNA

B. DNA + "Protein"

C. RNA + "Protein"

D. DNA + RNA

Answer: C



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64. Genetic material of reovirus is

A. DNA

B. RNA

C. DNA and RNA

D. Nucleoprotein complexes.

Answer: B



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65. What is true about viruses ?

A. They can be crystallised and stored for several years

B. Viruses do not occur as parasites in living cells

C. They can be cultured on artificial media

D. They are devoid of genetic material of their own

Answer: A



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66. Potato leaf-roll disease is caused by

A. Fungi

B. Viruses do not occur as parasites in living cells

C. Bacteria

D. Nematodes

Answer: B



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67. Genetic material of reovirus is

A. ss DNA

B. ds DNA

C. ms RNA

D. ds RNA

Answer: D



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68. The one which does not lose its identity even after crystallisation is

A. Virus

B. Bacterium

C. Microbe

D. Protistan

Answer: A



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69. Virus with uncheic acid but without protein coat is

A. Virion

B. Viroid

C. Capsid

D. Prion

Answer: B



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70. Prophage is viral genome

A. Freshly synthesised

B. Inoculated to a bacterium

C. Outside the host cell

D. Incorporated and integrated to host genome

Answer: D



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71. Viruses are no more "alive" than isolated chromosomes because

A. They require both RNA and DNA

B. They both need food molecules

C. They both require oxygen for respiration

D. Both require the environment of a cell to replicate.

Answer: D



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72. Which one of the following statements about viruses is correct

- A. Viruses possess their own metabolic system
- B. All viruses contain both RNA and DNA
- C. Viruses are obligate parasites
- D. Nucleic acid of viruses is known as capsid

Answer: C



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73. Viroids have

A. Single stranded RNA not enclosed by protein coat

B. Single strandad DNA not enclosed by protein coat

C. Double stranded DNA enclosed by protein coat

D. Double stranded RNA enclosed by protein coat

Answer: A



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74. Assertion (A) : Severe Acute Respiratory Syndrome (SARS) originated in China.

Reason (R): China is the most populated country of the world.

A. Point out if both are true with reason being correct explanation

B. both true but reason not correct
explanation

C. assertion true but reason wrong

D. and both are wrong

Answer: B



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75. Which one is caused by virus

A. Malaria

B. Polio

C. Plague

D. Tuberculosis

Answer: B



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76. Which of the following diseases is not caused by virus

A. Mumps

B. AIDS

C. Tuberculosis

D. Rabies.

Answer: C



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77. cDNA is

A. Circular DNA

B. Coiled DNA

C. Cytoplasimic DNA

D. Complementary DNA

Answer: D



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78. Which viral disease is spready by mosquito

A. Plague

B. Typhus

C. Yellow fever

D. Elephantiasis

Answer: C



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79. Double stranded RNA is found in

A. TMV

B. Reovirus

C. $\phi \times 174$

D. Cauliflower Mosaic Virus

Answer: B



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80. Viruses that infect bacteria, multiply and cause their lysis, are called

A. Lysozymes

B. Lipolytic

C. Lysogenic

D. Lytic.

Answer: D



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81. What is not true of reprovirus

A. DNA has no role in life cycle

B. There is a gene for RNA dependent DNA
polymerase

C. Genetic material is RNA

D. They are causative agents for certain cancers.

Answer: A



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82. The genetic material of HIV is

A. ss DNA

B. ss RNA

C. ds RNA

D. ds DNA

Answer: B



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83. Cryptogram of TMV is

A. R/1, 1/8, S/S, S/Af

B. R/2, 1/5, E/P, O/S

C. R/1, 2/5, E/E, S/O

D. R/1, 2/7, E/E, S/O

Answer: A



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84. Which of the following is false?

- A. Most plant viruses are RNA viruses
- B. Most animal viruses are DNA viruses
- C. TMV has a doubled stranded RNA
- D. T_4 bacteriophage has double stranded DNA molecule.

Answer: C



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85. Viral genome incorporated and integrates with bacterial genomes is refer to as

A. DNA

B. Prophage

C. RNA

D. Both B and C.

Answer: B



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86. Identify the correct pair having double stranded RNA

A. Cauliflower mosaic virus and Dahlia mosaic virus

B. Poliovirus and Wound tumour virus

C. Tobacco mosaic virus and Reovirus

D. Wound tumour virus and Reovirus.

Answer: D



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87. Louis Pasteur's view on the origin of life is that

A. They have arisen from nucleic acid and protein found in primitive soup

B. They arose from bacteria as a result of loss of cell wall ribosomes, ect.

C. They arose from some bacteria which developed a nucleus only

D. They are modified plasmide which are in fact the fragments of nucleic acids of the host.

Answer: D



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88. Viral envelope is made of

A. Lipids

B. Proteins

C. Carbohydrates

D. All the above

Answer: D



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89. Retrovirus employ To make complementary DNA from RNA

- A. DNA polymerase
- B. Restriction endonuclease
- C. Reverse transcriptase
- D. Reverse polymerase.

Answer: C



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90. Process of reverse transcription was discovered by

A. Garrod

B. Temin and Baltimore

C. Beadla and Tatum

D. Marshall and Nirenberg

Answer: B



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91. A provirus is

A. Free virus

B. Free DNA

C. Primitive virus

D. Integrated virus genome

Answer: D



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92. Bacteriophage releases lysozyme at

A. Absorption phase

B. Penetration phase

C. Eclipse phase

D. Maturation phase

Answer: B



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93. Host of TMV is

A. Nicotiana

B. Triticum

C. Datura

D. Withania

Answer: A



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94. Prion consists of

A. DNA

B. RNA

C. Both DNA and RNA

D. Protein

Answer: D



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95. Virod causes

- A. Caulflower mosaic
- B. Potato spindle mosaic
- C. Tobacco mosaic
- D. Tulip yellw mosaic.

Answer: B



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96. Franklin Conrat demonstrated that RNA is genetic material in

A. HIV

B. CMV

C. TMV

D. Mouse Sarcoma.

Answer: C



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97. Proteinaceous infectious particles causing disease are

A. Prions

B. Viroids

C. Viruses

D. Chlamydia.

Answer: A



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98. RNA like particles that cause disease are

A. Virus

B. Viroid

C. Prion

D. Mycoplasma.

Answer: B



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99. RNA retroviruses have a special enzyme that

- A. Polymerises host DNA
- B. Translates host DNA
- C. Disintegrates host DNA
- D. Transcribes viral RNA to cDNA

Answer: D



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100. Virus multiplies in

A. Dead tessue

B. Soil

C. Living tissue

D. Culture medium.

Answer: C



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101. Which one does not occur in lytic life cycle of a virulent DNA phage?

- A. The host cell lyses
- B. New phages are released
- C. Host cell produces a number of virions
- D. Phage DNA integrates with host DNA

Answer: D



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102. A virus containing ssRNA act as a template for DNA synthesis is called as

A. Polio Virus

B. Retrovirus

C. Adeno Virus

D. Pox virus

Answer: B



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103. Find the correct matches

	List I		List II
a	M ₁₃ bacteriophage	i.	ds RNA
b	Rice Dwarf Virus	ii.	ss RNA
c	Cauliflower Mosaic Virus	iii.	ss DNA
d	Polio Virus	iv.	ds DNA

A. a-iii, b-i, c-iv, d-ii

B. a-ii, b-i, c-iii, d-iv

C. a-iii, b-iv, c-ii, d-i

D. a-iv, b-iii, c-i, d-ii

Answer: A



104. Which institute is correct matched with its location ?

- A. National institute of communicable diseases-Lucknow
- B. National Institute of Virology-Pune
- C. National Institute of Nutrition-Mumbai
- D. Central Drug Research Institute-Kasauli.

Answer: B



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105. Severe Acute Respiratory Syndrome (SARS)

A. Affects non-vegetarians faster than vegetarians

B. Is an acute form of asthma

C. Is caused by a variant of Common Cold virus (Corona virus)

D. Is caused by a variant of Pneumococcus pneumoniae.

Answer: B



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106. Rabies is caused by a

A. Bacterium

B. Worm

C. Virus

D. Fungus.

Answer: C



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107. Which one has ssRNA ?

A. $\phi \times 174$

B. T_2 bacteriophage

C. Pox virus

D. TMV.

Answer: D



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108. Genetic material of Rabies virus is

A. Double stranded RNA

B. Single stranded RNA

C. Double stranded DNA

D. Single stranded DNA

Answer: B



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109. A virion is a

A. Virus without protein coat

B. Enuclented virus

C. Prion

D. Virus.

Answer: D



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110. What is false ?

- A. TMV has double stranded RNA molecule
- B. Most plant viruses are RNA viruses
- C. Bacteriophage has a double stranded DNA molecule
- D. Most animal viruses are DNA viruses.

Answer: A



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111. Which one of the following are intracellular obligate parasites

A. Bacteria

B. Slime moulds

C. Viruses

D. Blue-green algae.

Answer: C



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112. Potato tuber spindle disease is caused by

A. Nematode

B. Virus

C. Bacterium

D. Viroid.

Answer: D



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113. HIV is classified as a retrovirus because its genetic information is carried in

A. DNA instead of RNA

B. DNA

C. RNA instead of DNA

D. Protein coat.

Answer: C



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114. Spongiform encephalopathy is caused by

A. Prion

B. E. coli

C. Virus

D. Fungus.

Answer: A



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115. The agents which are known to cause CJD are

- A. Protein particles
- B. A class of bacteria
- C. A class of viruses
- D. Fungi

Answer: A



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116. T.O. Diener discovered a

- A. Bacteriophage
- B. Infectious protein
- C. Free infectious DNA
- D. Free infectious RNA

Answer: D



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117. AIDS virus contains or Human immuno deficiency (HIV) virus has protein coat and genetic material which is

- A. RNA with protein
- B. DNA only
- C. DNA with protein
- D. DNA without protein

Answer: A



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118. Bovine spongiform encephalopathy is a disease caused by prions in

A. Cow

B. Sheep

C. Potato

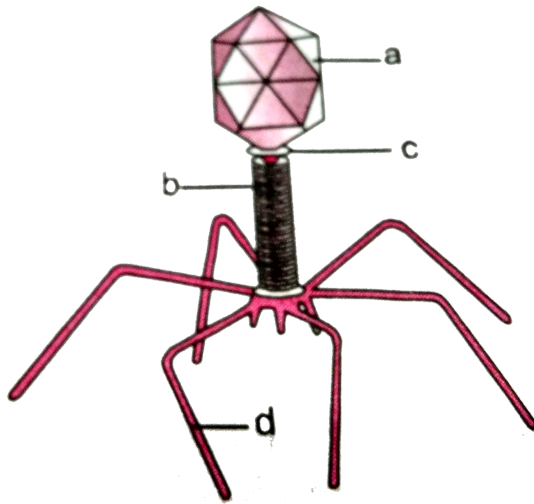
D. Man.

Answer: A



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119. Given is a diagram of a bacteriophage in which one of the options all the four parts, a, b, c, and d are correct.



- A. *a* *b* *c* *d*
 Tail fibres Head Sheath Collar
- B. *a* *b* *c* *d*
 Sheath Collar Head Tail fibres
- C. *a* *b* *c* *d*
 Head Sheath Collar Tail fibres

D. *a* *b* *c* *d*
Collar Tail fibres Head Sheath

Answer: C



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120. Which of the following is considered as neither prokaryotes nor eukaryotes

A. Bacteria

B. Monera

C. Fungi

D. Bacteriophages.

Answer: D



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121. Virus differs from bacterium in having

A. Cell wall

B. Cytosol

C. DNA as genetic material

D. DNA or RNA with no ribosomes.

Answer: D



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122. Nucleic acid does not occur in

A. Prion

B. Viroid

C. Virus

D. Mycoplasma.

Answer: A



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123. Common cold is not cured by antibiotics because it is

- A. Caused by virus
- B. Caused by Gram (+) bacterium
- C. Caused by Gram (-) bacterium
- D. Not an infectious disease.

Answer: A



124. Which statement is wrong for viruses

A. All are parasites

B. All of them have helical symmetry

C. They have the ability to synthesise
nucleic acid and proteins

D. Antibiotics have no effect on them.

Answer: B



125. Identify the correct sequence of events in the viral replication process

- I. Eclipse II. Maturation
III. Adsorption IV. Assembly
V. Penetration VI. Lysis

A. $I \rightarrow II \rightarrow III \rightarrow IV \rightarrow V \rightarrow VI$

B. $II \rightarrow I \rightarrow III \rightarrow IV \rightarrow V \rightarrow VI$

C. $III \rightarrow V \rightarrow I \rightarrow II \rightarrow IV \rightarrow VI$

D. $III \rightarrow V \rightarrow I \rightarrow IV \rightarrow II \rightarrow VI$

Answer: C



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126. The genetic material of Papaya Mosaic Virus is

A. ss DNA

B. ds DNA

C. ds RNA

D. ss RNA

Answer: D



127. The genetic material of a viroid is

A. DNA

B. RNA

C. Protein

D. Carbohydrate

Answer: B



128. Which requires lysozyme for life cycle of viruses

- A. Eclipse phase
- B. Penetration phase
- C. Adsorption phase
- D. Latent phase

Answer: B



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129. Total number of amino acids in capsid of TMV having 2130 capsomeres is

A. 336540

B. 162622

C. 948

D. 387921

Answer: A



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130. Satellite RNA are present in some

A. Prions

B. Bacteriophages

C. Plant viruses

D. Viroids

Answer: C



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131. A virus can be considered living being as it

A. Reproduces inside the host

B. Respires

C. Can cause disease

D. Responds to touch stimule.

Answer: A



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132. Identify the correct pair of combination

I. Viroid -Bovine spongiform encephalitis ,brgt

II. Prion-Creutzfeldt-Jakob disease

III. Measles Virus -Glycoyrotein projecions

IV. Rabies Virus-Polyhedral symmetry

A. III, IV

B. I, III

C. I,II

D. II, III

Answer: D





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133. Which of the following shows coiled RNA strand and capsomeres

A. Tobacco mosaic virus

B. Measles virus

C. Retrovirus

D. Polio virus

Answer: A



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134. Viruses have

- A. Prokaryotic nucleus
- B. Single chromosome
- C. Both DNA and RNA
- D. DNA enclosed in a protein coat.

Answer: D



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135. Bacterial viruses usually have

A. ss RNA

B. ds RNA

C. ss DNA

D. ds DNA

Answer: D



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136. Which of the following is wrongly match

- A. T.O. Diener-Viroids are found to be free
DNA
- B. W.M. Stanley-Crystallised proteins
- C. M.W. Beijerinck-Contagium vivum fluidum
- D. D.J. Ivanowski-Microbes smaller than
bacteria cause mosaic disease of
tobacco.

Answer: A



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137. The cryptogram of T_2 coliphage is

A. D/2, 130/30, X/X, B/O

B. D/2, 3/7, S/S, V/O

C. D/2, 137/40, S/S, B/O

D. R/1,54/92, X/X, V/O

Answer: A



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138. Match the lists and find the correct option

(a) Viroid inflecting tomato plant	(i) 6,500 nucleotides
(b) TMV	(ii) 300–400 nucleotides
(c) Polio virus	(iii) Two identical molecules of RNA
(d) Lentivirus	(iv) Many sided
	(v) Prion

A. (a)-(ii), (b)-(i), (c)-(iv), (d)-(iii)

B. (a)-(iii), (b)-(iv), (c)-(iv), (d)-(ii)

C. (a)-(ii), (b)-(iv), (c)-(v), (d)-(i)

D. (a)-(i), (b)-(iv), (c)-(v), (d)-(i)

Answer: A



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139. Enzymes are not found in

A. Fungi

B. Cyanobacteria

C. Virus

D. Algae.

Answer: C



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140. Select the wrong statement

- A. Viroids were discovered by D.J. Ivanowski
- B. W.M. Stanley showed that viruses could be crystallised
- C. The term 'contagium vivum fluidum' was coined by M.W. Beijerinck
- D. Mosaic disease of tobacco and AIDS in human beings are caused by viruses.

Answer: A



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141. Which of the following affect proteins and nucleic acids but not viruses

- A. Pressure
- B. Enzyme treatment
- C. Deneturation
- D. All the above

Answer: D



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142. Pick out the statement that does not apply to viroids

- A. Infection agents smaller than viruses
- B. Cause potato spindle tuber disease
- C. Have free DNA
- D. Lack protein coat

Answer: C



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143. Influenza virus has

- A. Single stranded RNA (-)
- B. Single stranded RNA (+)
- C. Double stranded RNA
- D. Single stranded DNA

Answer: A



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144. Which of the following is true about prions

A. Useful polysaccharide of galactose

B. High molecular weight infectious proteins

C. Small nucleic acid fragments capable of replication

D. Low molecular weight infectious proteins.

Answer: D



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145. Match the following and find the correct answer

I		II		III	
(a) Adsorption phase	(i) Assemblage of virions	(p) Complementary receptor sites			
(b) Lytic phase	(ii) Tail core is driven through bacterial cell wall	(q) Eclipse period			
(c) Maturation phase	(iii) Contact between phage parasite and bacterium	(r) Lysozyme			
(d) Penetration phase	(iv) Cell wall dissolution	(s) Tail sheath			

A. a-i-r, b-ii-s, c-iv-q, d-iii-p

B. a-iii-q, b-i-p, c-ii-r, d-iv-s

C. a-iii-p, b-iv-r, c-i-q, d-ii-s

D. a-iv-s, b-iii-p, c-i-r, d-ii-q

Answer: C



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146. Nucleic acid having 5-methyl uracil is genetic material in

A. HIV

B. QB bacteriophage

C. TMV

D. T_4 Phage.

Answer: D



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147. Which of the following statements is wrong for viroids

A. RNA is of high molecular weight

B. They lack a protein coat

C. They are smaller than viruses

D. They cause infections .

Answer: A



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148. Viroids differ from viruses in having

- A. DNA molecules with protein coat
- B. DNA molecules without protein coat
- C. RNA molecules with protein coat
- D. RNA molecules without protein coat

Answer: D



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Cyg

1. Who discovered virus to be nucleoprotein entity ?

A. Stanley

B. Bawden and Pirie

C. Enders

D. Lwoff

Answer:



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2. Who cultured the virus for the first time ?

A. Enders

B. Sinsheimer

C. Temin

D. Issaca and Lindemann.

Answer:



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3. Bacteriophages possess

- A. ds DNA
- B. ds and ss RNA
- C. ss DNA
- D. All the above.

Answer: D



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4. Poplomers are components of

- A. Capsid of viruses
- B. Envelope of viruses
- C. RNA of certain viruses
- D. Viral enzymes.

Answer: B



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5. Which virus possesses two RNA genomes ?

A. TMV

B. Potato Mosaic virus

C. HIV

D. Rotavirus

Answer: D



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6. Who crystallised and isolated viruses for the first time?

A. Ivanowsky

B. Takashahi and Rawlins

C. Mayer

D. Stanley

Answer:



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7. Virus was discovered by whom

A. Holmes

B. Ivanowsky

C. Cairns

D. Hayes and Lederberg.

Answer:



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8. Which of the following sequence is found in Rous sarcoma virus

- A. Single stranded DNA
- B. Double stranded DNA
- C. Single stranded RNA
- D. Double stranded RNA

Answer:



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9. An envelope surrounds the virus in

A. HIV

B. TMV

C. T_2

D. Lambda phage

Answer: A



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10. During lytic life cycle of a virulent DNA phage which of the following does not occur

- A. Eucaryotic nucleases differ from procaryotic nucleases
- B. Cytosine bases of viral DNA are methylated
- C. Thymine bases of viral DNA are alkylated
- D. Cytosine is replaced by uracil

Answer:





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11. Prophage is viral genome

A. Repressor

B. Changing to temperate form

C. Integrase

D. Repressor and integrase.

Answer:



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12. The single-stranded DNA phage $\phi \times 174$ contains approximately 5400 nucleotides. If an average protein contains 20 amino acids, how many different proteins could this phage DNA code ?

A. Replicative DNA

B. Master strand

C. Plus strand

D. Negative strand

Answer:



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13. HIV causes reduction in

or

HIV virus affects..... In AIDS patient

- A. Multiplicative state
- B. Single strand DNA state
- C. RNA state
- D. Provirus state.

Answer:



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