

Yakeen NEET 2.0 2026

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DPP: 4

Biological Classification

- Q1** Which of the following are called acellular organisms?
 (A) Bacteria (B) Fungi
 (C) Protozoa (D) Virus
- Q2** Common cold/flu is-
 (A) A viral disease
 (B) A bacterial disease
 (C) A mycoplasmal disease
 (D) A fungal disease
- Q3** Which is absent in viruses?
 (A) Nucleic acid
 (B) Protoplasm
 (C) Protein
 (D) Both (A) and (C)
- Q4** Term virus means-
 (A) Non-cellular
 (B) A parasite
 (C) A killer
 (D) Venom or poison
- Q5** Which of the following shows coiled RNA strand and capsomeres?
 (A) Retrovirus
 (B) Polio virus
 (C) Tobacco mosaic virus
 (D) Measles virus
- Q6** The concept of *Contagium vivum fluidum* (infectious living fluid) for virus was given-
 (A) Mayer (B) Beijerinck
 (C) Pasteur (D) Ivanowsky
- Q7** Which of the following statement is false about viruses-
 (A) Viruses are obligate parasites.
 (B) Viruses can multiply only when they are inside the living cells
 (C) Viruses cannot pass bacterial proof filter
 (D) Viruses are made up of protein + DNA or RNA (never both DNA and RNA)
- Q8** The subunit of capsid is called-
 (A) Core
 (B) Nucleotide
 (C) Amino acid
 (D) Capsomere
- Q9** The genetic material for most of the bacteriophages is-
 (A) ssRNA (B) dsRNA
 (C) dsDNA (D) ssDNA
- Q10** The protein coat of viruses is called:
 (A) Capsid (B) Capsomere
 (C) Core (D) Envelope
- Q11** In plants, mosaic formation, leaf rolling and curling, yellowing and vein clearing, dwarfing and stunted growth are symptoms of:
 (A) Bacterial diseases
 (B) Mycoplasmal diseases
 (C) Viral diseases
 (D) Fungal diseases
- Q12** Assertion (A): In the five kingdom classification proposed by Whittaker, there is no mention of



viruses, viroids and prions.

Reason (R): Viruses are not truly 'living', they are often considered as a connecting link between biotic and abiotic systems as it requires cellular machinery of the host to reproduce.

- (A) Both Assertion (A) and Reason (R) are true and Reason is the correct explanation of Assertion.
 (B) Both Assertion (A) and Reason (R) are true but Reason is not the correct explanation of Assertion (A).
 (C) Assertion (A) is true but Reason (R) is false.
 (D) Assertion (A) is false but Reason (R) is true.

Q13 Arrangement of capsomeres is in the form of;

- (A) helical
 (B) polyhedral
 (C) either (1) or (2)
 (D) no definite form

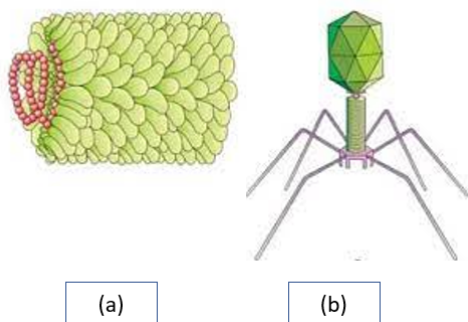
Q14 Among the common cold (flu), mumps, small pox, herpes, influenza and AIDS, how many diseases are caused by viruses in humans?

- (A) Three (B) Four
 (C) Five (D) Six

Q15 Crystals of Virus consist largely of

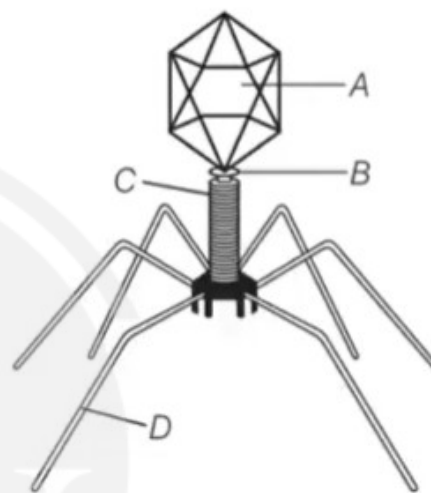
- (A) DNA (B) RNA
 (C) Protein (D) Histone

Q16 Recognise the figure and find incorrect statement.



- (A) (a) attacks on an eukaryotic organism while (b) attacks on a prokaryotic organism
 (B) (a) has ssRNA as genetic material while (b) had dsDNA as genetic material
 (C) (a) belongs to protista and (b) belongs to monera
 (D) Both (a) and (b) are acellular organisms

Q17 Identify the label *A*, *B*, *C* and *D* in the following figure.



- (A) A-Head, B-Collar, C-Sheath, D-Tail fibres
 (B) A-Collar, B-Head, C-Sheath, D-Tail fibres
 (C) A-Head, B-Collar, C-Tail fibres, D-Sheath
 (D) A-Collar, B-Tail fibres, C-Head, D-Sheath

Q18 In modern medicine, certain infections, neurological disease were found to be transmitted by an agent consisted of abnormally folded protein called

- (A) Viroids (B) Prions
 (C) DNA (D) RNA

Q19 CJD appears to be caused by an abnormal infectious protein called

- (A) Capsid (B) Capsomeres
 (C) Prions (D) Virus

Q20



Match the columns and find out the correct combination:

	List-I		List-II
A.	Viroid	P.	Nucleoprotein
B.	Virus	Q.	Infectious protein
C.	Prion	R.	Infectious nucleic acid
D.	Virion	S.	Infectious sub-viral particle

- (A) A-S; B-P; C-Q; D-R
 (B) A-Q; B-S; C-P; D-R
 (C) A-R; B-P; C-Q; D-S
 (D) A-S; B-Q; C-R; D-P

Q21 Mad cow disease in cattle is caused by an organism which has:

- (A) inert crystalline.
 (B) abnormally folded protein.
 (C) free RNA without protein coat.
 (D) free DNA without protein coat.

Q22 Match the term in column A with their respective examples in column B:

	Column-A		Column-B
1.	Mad cow disease	i.	Phytoplankton
2.	Heterocysts	ii.	Trypanosoma
3.	Diatoms	iii.	Prions

4.	Sleeping sickness	iv.	Anabena
5.	Leaf curling	v.	Virus

Select the correct option:

- (A) 1-iii 2-iv 3-i 4-ii 5-v
 (B) 1-v 2-iv 3-i 4-ii 5-iii
 (C) 1-v 2-i 3-iv 4-iii 5-ii
 (D) 1-ii 2-iii 3-v 4-iv 5-i

Q23 Match column I with column II and select the correct option from the given codes.

	Column I		Column II
A	Plant virus	(i)	Mad cow disease
B.	Animal virus	(ii)	Potato spindle tuber
C	Viroids	(iii)	Polio
D.	Prions	(iv)	Tobacco mosaic

- (A) A-(iv), B-(iii), C-(ii), D-(i)
 (B) A-(i), B-(ii), C-(iii), D-(iv)
 (C) A-(iii), B-(iv), C-(i), D-(ii)
 (D) A-(ii), B-(iii), C-(iv), D-(i)

Q24 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 Key

Q1 (D)

Q2 (A)

Q3 (B)

Q4 (D)

Q5 (C)

Q6 (B)

Q7 (C)

Q8 (D)

Q9 (C)

Q10 (A)

Q11 (C)

Q12 (A)

Q13 (C)

Q14 (D)

Q15 (C)

Q16 (C)

Q17 (A)

Q18 (B)

Q19 (C)

Q20 (C)

Q21 (B)

Q22 (A)

Q23 (A)

Q24 (D)



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