

NEET CELL: THE UNIT OF LIFE — CILIA, FLAGELLA AND CENTROSOME — PYQS

Max. Marks: 20

Questions: 5

Section A (MCQ) — 5 questions

Q.1 Match **List I** with **List II** :

List - I		List - II	
A.	Axoneme	I.	Centriole
B.	Cartwheel pattern	II.	Cilia and flagella
C.	Crista	III.	Chromosome
D.	Satellite	IV.	Mitochondria

Choose the correct answer from the options given below : [NEET (UG) 2024]

- (1) A-IV, B-III, C-II, D-I (2) A-IV, B-II, C-III, D-I
(3) A-II, B-IV, C-I, D-III (4) A-II, B-I, C-IV, D-III

Scan or tap for the full solution



Q.2 Microtubules are the constituents of

[NEET 2016 (Phase 1)]

- (1) Cilia, Flagella and Peroxisomes
(2) Centrosome, Nucleosome and Centrioles
(3) Spindle fibres, Centrioles and Cilia
(4) Centrioles, spindle fibres and chromatin

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Q.3 Match the following and select the **correct** answer :

[AIPMT 2014]

List-I		List-II	
a.	Centriole	i.	Infoldings in mitochondria
b.	Chlorophyll	ii.	Thylakoids
c.	Cristae	iii.	Nucleic acid
d.	Ribozymes	iv.	Basal body cilia or flagella

- (1) (a) → (iv), (b) → (iii), (c) → (i), (d) → (ii)
(2) (a) → (i), (b) → (iii), (c) → (ii), (d) → (iv)
(3) (a) → (iv), (b) → (ii), (c) → (i), (d) → (iii)
(4) (a) → (i), (b) → (ii), (c) → (iv), (d) → (iii)

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Q.4 Which of the following statements regarding cilia is not correct ? [AIPMT 2006]

- (1) Microtubules of cilia are composed of tubulin
(2) The organized beating of cilia is controlled by fluxes of Ca^{2+} across the membrane
(3) Cilia are hair-like cellular appendages
(4) Cilia contain an outer ring of nine doublet microtubules surrounding two single microtubules

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Q.5 Microtubules are absent in: [AIPMT 2001]

- (1) Spindle fibres (2) Mitochondria
(3) Centriole (4) Flagella

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ANSWER KEY

Ques.	1	2	3	4	5						
Ans.	4	3	3	2	2						