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NEET CELL: THE UNIT OF LIFE — RIBOSOMES AND CYTOSKELETON — PYQS

Max. Marks: 52 **Questions:** 13

Section A (MCQ) — 13 questions

Q.1 Non-membrane bound cell organelles found in both prokaryotic and eukaryotic cells are _____. [NEET (UG) 2026]

(1) Lysosomes (2) Centrosomes
(3) Mitochondria (4) Ribosomes

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Q.2 From the statements given below choose the correct option :

A. The eukaryotic ribosomes are 80S and prokaryotic ribosomes are 70S.
B. Each ribosome has two sub-units.
C. The two sub-units of 80 S ribosome are 60 S and 40 S while that of 70 S are 50 S and 30 S.
D. The two sub-units of 80 S ribosome are 60 S and 20 S and that of 70 S are 50 S and 20 S.
E. The two sub-units of 80 S are 60 S and 30 S and that of 70 S are 50 S and 30 S.

[NEET (UG) 2025]

(1) A, B, E are true (2) B, D, E are true
(3) A, B, C are true (4) A, B, D are true

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Q.3 Which of the following functions is carried out by cytoskeleton in a cell? [NEET (UG) 2023]

(1) Protein synthesis (2) Motility
(3) Transportation (4) Nuclear division

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Q.4 Which of the following are not membrane-bound ? [AIPMT 2015]

(1) Ribosomes (2) Mesosomes
(3) Lysosomes (4) Vacuoles

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Q.5 DNA is not present in : [AIPMT 2015 (Cancelled)]

(1) Nucleus (2) Chloroplast
(3) Mitochondria (4) Ribosomes

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Q.6 The solid linear cytoskeletal elements having a diameter of 6 nm and made up of a single type of monomer are known as: [AIPMT 2014]

(1) Microfilaments (2) Lamins
(3) Microtubules (4) Intermediate filaments

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Q.7 Which one of the following structures is an organelle within an organelle ? [AIPMT 2012 (Mains)]

(1) Mesosome (2) Peroxisome
(3) Ribosome (4) ER

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Q.8 What is true about ribosomes ? [AIPMT 2012 (Prelims)]

(1) These are self-splicing introns of some RNAs.
(2) These are found only in eukaryotic cells
(3) These are composed of ribonucleic acid and proteins
(4) The prokaryotic ribosomes are 80 S, where 'S' stands for sedimentation coefficient.

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Q.9 Peptide synthesis inside a cell takes place in : [AIPMT 2011 (Prelims)]

(1) Chromoplast (2) Ribosomes
(3) Chloroplast (4) Mitochondria

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Q.10 An elaborate network of filamentous proteinaceous structures present in the cytoplasm which helps in the maintenance of cell shape is called - [AIPMT 2010 (Mains)]

(1) Cytoskeleton
(2) Endoplasmic Reticulum
(3) Thylakoid
(4) Plasmalemma

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Q.11 Cytoskeleton is made up of : [AIPMT 2009]

(1) Cellulose microfibrils

(2) Proteinaceous filaments

(3) Calcium carbonate granules

(4) Callose deposits

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Q.12 The two sub-units of ribosome remain united at a critical ion level of: [AIPMT 2008]

(1) magnesium (2) manganese

(3) calcium (4) copper

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Q.13 Which of the following ribosomes are engaged in protein synthesis in animal cell? [AIPMT 2000]

(1) Ribosomes of only nucleolus and cytosol

(2) Ribosomes which occur on nuclear membrane and E.R.

(3) Ribosomes of only mitochondria and cytosol

(4) Ribosomes of only cytosol

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ANSWER KEY

Ques.	1	2	3	4	5	6	7	8	9	10	11
Ans.	**4**	**3**	**2**	**1**	**4**	**1**	**3**	**3**	**2**	**1**	**2**
Ques.	12	13									
Ans.	**1**	**2**									