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NEET EVOLUTION — ORIGIN OF LIFE (OPARIN–HALDANE, MILLER'S EXPERIMENT) — PYQS

Max. Marks: 44 **Questions:** 11

Section A (MCQ) — 11 questions

Q.1 Panspermia, an idea that is still a favourite for some astronomers, means: [NEET (UG) 2022 (Phase 2)]

(1) Transfer of spores as unit of life from other planets to Earth

(2) Creation of life from dead and decaying matter

(3) Creation of life from chemicals

(4) Origin of sperm in human testes

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Q.2 From his experiments, S.L. Miller produced amino acids by mixing the following in a closed flask [NEET (UG) 2020]

(1) CH_3, H_2, NH_3 and water vapor at 600°C

(2) CH_4, H_2, NH_3 and water vapor at 800°C

(3) CH_3, H_2, NH_4 and water vapor at 800°C

(4) CH_4, H_2, NH_3 and water vapor at 600°C

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Q.3 Following are the two statements regarding the origin of life -

Of the above statements which one of the following options is correct ?

A. The earliest organisms that appeared on the earth were non-green and presumably anaerobes

B. The first autotrophic organisms were the chemoautotrophs that never released oxygen

[NEET 2016 (Phase 1)]

(1) Both A and B are false

(2) Both A and B are correct

(3) B is correct but A is false

(4) A is correct but B is false

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Q.4 Which of the following is the correct sequence of events in the origin of life ?

I. Formation of protobionts

II. Synthesis of organic monomers

III. Synthesis of organic polymers

IV. Formation of DNA-based genetic systems

[NEET 2016 (Phase 2)]

(1) II, III, I, IV (2) II, III, IV, I

(3) I, II, III, IV (4) I, III, II, IV

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Q.5 Which one of the following is incorrect about the characteristics of protobionts (coacervates and microspheres) as envisaged in the abiogenic origin of life? [AIPMT 2008]

(1) They could separate combinations of molecules from the surroundings

(2) They were able to reproduce

(3) They were partially isolated from the surroundings

(4) They could maintain an internal environment

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Q.6 The concept of chemical evolution is based on- [AIPMT 2007]

(1) Crystallization of chemicals

(2) Effect of solar radiation on chemicals

(3) Possible origin of life by combination of chemicals under suitable environmental conditions

(4) Interaction of water, air and clay under intense heat

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Q.7 Which one of the following amino-acids was not found to be synthesized in Miller's experiment? [AIPMT 2006]

(1) Aspartic acid (2) Alanine

(3) Glycine (4) Glutamic acid

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Q.8 Which one of the following experiments suggests that simplest living organisms could not have originated spontaneously from non-living matter? [AIPMT 2005]

(1) Meat was not spoiled, when heated and kept sealed in a vessel
(2) Larvae could appear in decaying organic matter
(3) Microbes appeared from unsterilized organic matter
(4) Microbes did not appear in stored meat

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Q.9 According to Oparin, which one of the following was not present in the primitive atmosphere of the earth ? [AIPMT 2004]

(1) Water vapour (2) Oxygen
(3) Methane (4) Hydrogen

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Q.10 There is no life on moon due to the absence of - [AIPMT 2002]

(1) O_2 (2) Light
(3) Water (4) Temperature

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Q.11 First life on earth was : - [AIPMT 2001]

(1) Autotrophs (2) Photoautotrophs
(3) Cyanobacteria (4) Chemoheterotrophs

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ANSWER KEY

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