51. Formation of more complex structure from a simpler structure lead to a simpler structure from a complex structure is an example of **[NCERT XI, Pg. No. 153]**
(1) Anabolism (2) Catabolism
(3) Metabolism (4) All of these

52. The most important form of energy currency in living systems is the bond energy in a chemical called **[NCERT XI, Pg. No. 153]**
(1) Adenosine diphosphate (ADP)
(2) Adenosine diphosphate (ADP)
(3) Guanosine triphosphate (GTP)
(4) All of these

53. Which of the following statements is not correct for living state?**[NCERT XI, Pg. No. 153]**
(1) As living organisms work continuously, they cannot afford to reach equilibrium
(2) Living process is a constant effort to maintain equilibrium
(3) Metabolism provides a mechanism for the production of energy
(4) Living state and metabolism are synonymous, without metabolism there cannot be a living state

54. The sugar found in polynucleotides is either ribose or _____ **[NCERT XI, Pg. No. 149]**
(1) Deoxyribose
(2) 2′ Deoxyribose
(3) 2′ Ribose
(4) None of the above

55. An α - helix is the example of which type of protein structure **[NCERT XI, Pg. No. 150]**
(1) Primary (2) Secondary
(3) Tertiary (4) Quaternary

56. The 2 strands of polynucleotides are **[NCERT XI, Pg. No. 151]**
(1) Parallel (2) Diagonal
(3) Anti – parallel (4) Spiral

57. The backbone of DNA is formed by _____chain **[NCERT XI, Pg. No. 151]**
(1) P – S – P (2) S – P – S
(3) S – P – P (4) S – S – P

58. One full turn of the DNA helical strand would involve _____ **[NCERT XI, Pg. No. 152]**
(1) 8 base pairs (10 steps)
(2) 10 base pairs (10 steps)
(3) 10 base pairs (8 steps)
(4) none of the above

59. Triglycerides are fatty acid esters of glycerol, which are formed by the esterification of _____ molecule(s) of fatty acids with _____ molecule(s) of glycerol. **[NCERT XI, Pg. No. 144]**
(1) One, two (2) One, three
(3) Three, one (4) Two, one

60. At each step of ascent of DNA helical structure, the stand turns _____ degrees **[NCERT XI, Pg. No. 152]**
(1) 38 (2) 3.8
(3) 36 (4) 3.6

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