

Examrace

National Standard Examination in Astronomy (NSEA) Solved Paper 2016 Part-17

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Q: 59. A fish is swimming in still water. At a given instant there is a bird flying vertically above the fish. For the bird, the fish appears to be 15 m below the surface of water while for the fish the bird appears to be 20 m above the surface. Refractive index of water is $4/3$. Actual distance between the bird and the fish is

- (A) 35m
- (B) 40m
- (C) 30m
- (D) 25m

Answer: (A)

Q: 60. The smallest integer n such that $\sqrt{n+1} - \sqrt{n} \leq 0.01$ is

- (A) 2499
- (B) 2500
- (C) 2501
- (D) 2502

Answer: (B)

Q: 61. A uniform wire of resistance per unit length $1 \Omega/m$ is bent in the form of an equilateral triangle. If effective resistance between adjacent vertices is 2.4Ω , length of each side of the triangle is

- (A) 1.8 m
- (B) 2.4 m
- (C) 3.6 m
- (D) 7.2 m

Answer: (C)

For detailed explanations and answers visit - [NSEA Answers with detailed explanations](#)

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