

**Examrace**

## AIIMS MBBS Entrance Test 2019 Physics Paper with Answer & Solutions 25 May Second Shift Part 8

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Q-32 Assertion: For communication antennae length should be comparable to  $\lambda(l - \lambda)$

Reason: It leads to maximum power

- (1) If both assertion and reason are true and reason is the correct explanation of assertion.
- (2) If both assertion and reason are true but reason is not the correct explanation of assertion.
- (3) If assertion is true but reason is false.
- (4) If both assertion and reason are false.

Answer: (3)

Q-33 Assertion: Amplitude modulation shows more interference than frequency modulation with noise.

Reason: Interference is function of amplitude of modulation wave with carrier wave.

- (1) If both assertion and reason are true and reason is the correct explanation of assertion.
- (2) If both assertion and reason are true but reason is not the correct explanation of assertion.
- (3) If assertion is true but reason is false.
- (4) If both assertion and reason are false.

Answer: (2)

AM shows more interference with noise

Both assertion & reason are true but reason does not explain assertion.

Q-34: Assertion: For an element generally (N = number of neutrons, Z = atomic number)  $Z < N$

Reason: Neutrons always experience attractive nuclear force.

- (1) If both assertion and reason are true and reason is the correct explanation of assertion.
- (2) If both assertion and reason are true but reason is not the correct explanation of assertion.
- (3) If assertion is true but reason is false.
- (4) If both assertion and reason are false.

Answer: (2)

Solutions:

Both assertion & reason are true but reason does not explain assertion.

Q-35: Assertion: Positive feedback is essential for converting a transistor into an oscillator.

Reason: Positive feedback works between cut-off and saturation region.

- (1) If both assertion and reason are true and reason is the correct explanation of assertion.
- (2) If both assertion and reason are true but reason is not the correct explanation of assertion.
- (3) If assertion is true but reason is false.
- (4) If both assertion and reason are false.

Answer: (2)

Q-36: Assertion: Vibrational degree of freedom of a di-atomic gas molecule appears at every high temperature

Reason: Di-atomic gas has two Vibrational degree of freedom in one direction.

- (1) If both assertion and reason are true and reason is the correct explanation of assertion.
- (2) If both assertion and reason are true but reason is not the correct explanation of assertion.
- (3) If assertion is true but reason is false.
- (4) If both assertion and reason are false.

Answer: (2)

Q-37: Assertion:  $NH_3$  is liquidities more easily than  $CO_2$  .

Reason: Critical temperature of  $NH_3$  is more than  $CO_2$  .

- (1) If both assertion and reason are true and reason is the correct explanation of assertion.
- (2) If both assertion and reason are true but reason is not the correct explanation of assertion.
- (3) If assertion is true but reason is false.
- (4) If both assertion and reason are false.

Answer: (1)

Q-38: Assertion: Even though net external force on a body is zero, momentum need not be conserved.

Reason: The internal interaction between particles of a body cancels out momentum of each other.

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- (1) If both assertion and reason are true and reason is the correct explanation of assertion.
- (2) If both assertion and reason are true but reason is not the correct explanation of assertion.
- (3) If assertion is true but reason is false.
- (4) If both assertion and reason are false.

Answer: (4)

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