

NEET Predicted Question Paper for Physics (2)

- The angular acceleration of a body, moving along the circumference of a circle, is
 - along the axis of rotation
 - along the radius, away from centre
 - along the radius towards the centre
 - along the tangent to its position
- The venturi-meter works on:
 - The principle of perpendicular axes
 - Huygen's principle
 - Bernoulli's principle
 - The principle of parallel axes
- Resistance of a carbon resistor determined from colour codes is (22000 \pm 5%) Ω . The colour of third band must be :
 - Yellow
 - Red
 - Green
 - Orange
- A full wave rectifier circuit consists of two p-n junction diodes, a centre-tapped transformer, capacitor and a load resistance. Which of these components remove the ac ripple from the rectified output?
 - Load resistance
 - A centre-tapped transformer
 - p-n junction diodes
 - Capacitor
- The net magnetic flux through any closed surface is:
 - Negative
 - Positive
 - Zero
 - Infinity

6. The ratio of radius of gyration of a solid sphere of mass M and radius R about its own axis to the radius of gyration of the thin hollow sphere of same mass and radius about its axis is:
- 5:2
 - 3:5
 - 5:3
 - 2:5
7. A 12 V, 60 W lamp is connected to the secondary of a step down transformer, whose primary is connected to ac mains of 220 V. Assuming the transformer to be ideal, What is the current in the primary winding?
- 0.37 A
 - 0.27 A
 - 2.7 A
 - 3.7 A
8. 10 resistors, each of resistance R are connected in series to a battery of emf E and negligible internal resistance. Then those are connected in parallel to the same battery, the current is increased n times. The value of n is :
- 1000
 - 100
 - 10
 - 1
 - e.
9. For Young's double slit experiment, two statements are given below:

Statement I: If screen is moved away from the plane of slits, angular separation of the fringes remains constant.

Statement II: If the monochromatic source is replaced by another monochromatic source of larger wavelength, the angular separation of fringes decreases.

In the light of the above statements, choose the correct answer from the options given below:

- a. Statement I is false but Statement II is true.
 - b. Both Statement I and Statement II are true.
 - c. Both Statement I and Statement II are false.
 - d. Statement I is true but Statement II is false.
10. A Carnot engine has an efficiency of 50% when its source is at a temperature 327°C . The temperature of the sink is:
- a. 200°C
 - b. 27°C
 - c. 15°C
 - d. 100°C

