

QUESTION 9: POWER SUPPLIES

- 9.1 9.1.1 Transformation steps-down the AC ✓voltage from 220 V to the required voltage✓ (2)
- 9.1.2 Rectification converts the AC signal✓ into a pulsating DC signal✓ (2)
- 9.2 9.2.1 The diode will be forward-biased because the anode is made more positive with respect to the cathode,✓ thereby reducing the depletion region✓ and allowing charge carriers to cross the junction resulting in conduction. ✓ (3)
- 9.2.2 The diode will be reverse-biased because the anode is made more negative with respect to the cathode,✓ thereby widening the depletion region✓ this will prevent majority charge carriers crossing the junction and the diode behaves like an insulator.✓ (3)
- 9.3 9.3.1 The series resistor limits the current that flows through the Zener protecting it. ✓
It also acts a voltage divider with the Zener setting the Zener voltage. (1)
- 9.3.2 $P = V_Z \times I_Z$ ✓
 $I_Z = \frac{P}{V_Z}$ ✓
 $I_Z = \frac{2}{5}$ ✓
 $= 400 \text{ mA}$ ✓ (3)
- 9.3.3 $R_s = \frac{V_s - V_Z}{I_Z}$ ✓
 $R_s = \frac{12 - 5}{0.4}$ ✓
 $= 17.5 \Omega$ ✓ (3)
- 9.3.4 $I_L = \frac{V_Z}{R_L}$ ✓
 $I_L = \frac{5}{1000}$ ✓
 $= 5 \text{ mA}$ ✓ (3)

2013 Exemplar Electrical Technology

D Keegan



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