

4. The main objective of DC-biasing is

- a) To adjust transistor
- b) To adjust transistor Q-point
- c) To handle in different states
- d) No use of DC-biasing

5. A rectifier can be defined as

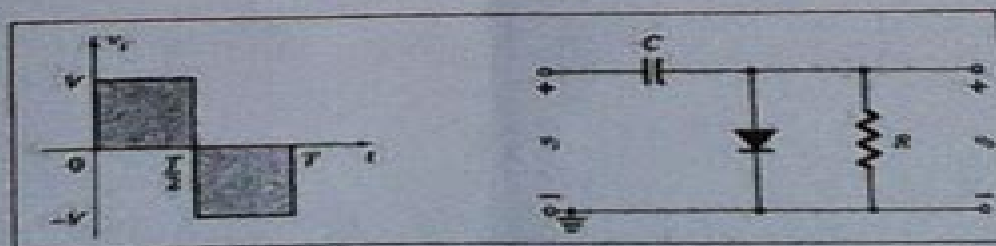
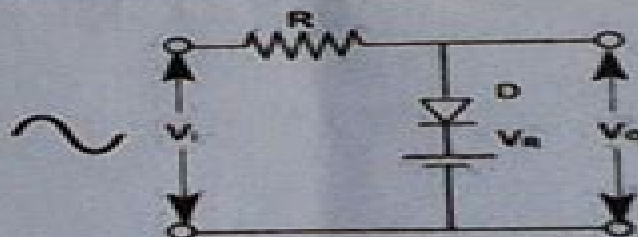
- a) A circuit used to amplify voltage
- b) A circuit used to amplify current
- c) A circuit used to convert AC into DC voltage/current
- d) None

Question no 6. (12 + 8 = 20)

- a) What is rectification, explain the full wave rectification using bridge circuit and draw its output when a sinusoidal input is applied.
- b) Explain the differences between Zener and Silicon/Germanium based diodes.

✓ Question no 7. (10 + 5 + 5 = 20)

What are clipping and clamping circuits? Draw and explain the outputs of the following circuits.



Question no 8. (12 + 8 = 20)

- a) What is the objective of DC-analysis in transistor? Draw the r-parameter model for common Emitter (CE) configuration.
- b) Draw the common base (CB) configuration circuit.

# Electronics N4 Past Year Papers

**Shasha Hu**



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