

**Question 1**

Learners do not round answers off to three decimal places as indicated on instructions of the question paper, Learners struggled with the questions on power. The drawing of phasor diagrams also needs more attention.

**Question 2**

Question not answered to well. Learners had a problem with all aspects of this question. The generation of 1 ph and 3 ph, basic calculation as well as simple sketches posed to be too much for the learners.

**Question 3**

Question not answered well. Learners have a problem with the circuit symbols of a transistor. Learners could not identify the three regions in which a transistor operate.

**Question 4**

Load line applications need more attention. Amplifiers in general seem to be problematic to learners. More attention must be given to the function of different components in amplifier circuits as well as the characteristics of different amplifier configurations.

**Question 5**

The use and operation of zener diodes requires attention. Very few learners understand the difference between clipping and clamping.

**Question 6**

Question not answered to well. There is a lack of knowledge and understanding pertaining to oscillators in general.

**Question 7**

In genera.! all learners struggled with this question. The sections on Boolean algebra and the drawing of logic circuits from Boolean expressions created prob.!ems for learners. Logic gates and truth tables needs more attention.

**Question 8**

Learners could not identify the given block diagram. More time must be spent on AM & FM transmitters and receivers.. Oscilloscope applications seem to be problematic.