

# INDUSTRIAL ELECTRONICS N3

(8080613)

QUESTION 3

APRIL 2021<sup>-8-</sup> QUESTION 3

- 3.1 Transistors are not only used in amplifier switch circuits. They may also be used as regulators.



Draw a neat labelled circuit diagram of a transistor used as a constant-current regulator.

(3)

- 3.2 The load line of a common emitter amplifier represents all the possible combinations of collector currents and collector-emitter voltages for amplification. The position of the bias point determines the amplification class.

Describe the following amplification classes.

3.2.1 Class B



3.2.2 Class C

(2 × 2)

(4)

- 3.3 Answer the following questions regarding photo transistors.

3.3.1 Draw a neat, labelled characteristic curve of a photo transistor.

(3)

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