

Homeostasis in humans Paper 1: 11 marks	Term 3	1 week
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CONTENT	ELABORATION
Introduction	☐ Define <i>homeostasis</i> as the process of maintaining a constant, internal environment within narrow limits, despite changes that take place internally and externally. ☐ State that the conditions within cells depend on the conditions within the internal environment (tissue fluid). ☐ List the factors/conditions within the tissue fluid that should be kept constant, within narrow limits.
Homeostasis through negative feedback	☐ Describe the control of the levels of the following through negative feedback: • Glucose • Carbon dioxide • Water • Salts
Temperature regulation	☐ Identify the different parts of the skin involved in thermoregulation. ☐ Describe the role of each of the following in thermoregulation: • Sweating • Vasodilation • Vasoconstriction

Responding to the environment – plants Paper 1: 11 marks	Term 3	1 week
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CONTENT	ELABORATION
Plant hormones	☐ List the functions of the following: • Auxins • Gibberellins • Absciscic acid ☐ Describe the control of weeds using plant hormones. ☐ Describe the role of auxins in: • Geotropism • Phototropism
Plant defence mechanisms	☐ State how each of the following is used by plants as defence: • Chemicals • Thorns

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3 four quadrant operation of dc motor four quadrant operation or mode of any dc motor means that machine operate in four quadrants they are forward braking mode forward motoring mode reverse braking or stop mode and reverse motoring mode a motor operates in two modes motoring and braking a motor drive capable of

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this paper gives a control for three phase brushless dc bldc motor in all four quadrant operation the control system in this paper is capable to detect and identify the rotor position by sensor signal 1 in this paper behaviour of bldc motor is studied in all four quadrant operations through simulation model

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aug 8 2020 1 answer sorted by 1 you can think of the first quadrant operation as being a buck converter down from the supply to the motor you can think of the second quadrant as being a boost converter from the motor s generated low voltage up to the supply voltage

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put simply the four quadrants that the controller can work in are 1 motor going clockwise controller applying clockwise drive 2 motor going anti clockwise controller applying anti clockwise drive 3 motor going clockwise controller applying anti clockwise drive 4 motor going anti clockwise controller applying clockwise drive

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1 to observe the four quadrant operation of a dc motor 2 to control a motor under torque control 3 to couple the speed control motor and torque controlled motor and observe the effect of a stepped torque 6 2 four quadrant operation of a dc motor the four quadrant operation is performed by giving an alternating reference speed command to

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aug 16 2021 the four quadrant operation of the motor can be described as follows quadrant i in the first quadrant the developed power by the motor is positive thus the motor operates in motoring mode and converts electrical energy into mechanical energy therefore the operation of the motor in first quadrant is called forward motoring quadrant ii

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the control of bldc motor in four quadrants is very crucial in this paper bldc motor is controlled in all the four quadrants without any wastage of power during regenerative braking period power generated is being stored in the chargeable battery

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