

Biodiversity and Classification

Question 1: Choose the correct answer from the options given:

- 1.1 The Phylum to which sponges belong. (2)
a) Porifera
b) Cnidaria
c) Annelida
d) Platyhelminth
- 1.2 The Phylum in which most organisms contain stinging cells. (2)
a) Chordata
b) Cnidaria
c) Nematoda
d) Arthropoda
- 1.3 The Phylum to which hookworms belong. (2)
a) Platyhelminthes
b) Annelida
c) Nematoda
d) Arthropoda
- 1.4 The Phylum in which organisms have a mantle cavity, internal organs and a hard shell. (2)
a) Echinodermata
b) Mollusca
c) Arthropoda
d) Chordata
- 1.5 The Phylum to which fish belong. (2)
a) Chordata
b) Echinodermata
c) Platyhelminth
d) Mollusca

Question 2: Give the correct term for each of the following definitions:

- 2.1 A community of organisms which occur naturally in a particular region. (1)
.....
- 2.2 The number of species in a community and the number of organisms within each of those species. (1)
.....

Question Paper For Life Science Grade 10 2014

Shasha Hu



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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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may 11 2021 a four quadrants dc chopper fqdc has been developed to work with a series motor for the application of dc drive electric vehicle in previous work capable of operating in such driving conditions and offers several types of chopper operation modes such as driving and reverse regenerative and resistive braking generator mode field weakening

motor 4 quadrant dc chopper operation electrical - Jun 18 2023

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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four quadrant operation of dc motor means that the machine operates in four quadrants they are forward braking forward

motoring reverse motoring and reverse braking a motor operates in two modes motoring and braking

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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

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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

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four quadrant operation of a pm dc motor 5 1 objective the objective of this activity is to analyze the four quadrant operation

of a permanent magnet dc pm dc motor this activity was derived from those developed and distributed by the university of

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