

**Q.8 Why law of gravitation is important to us?**

**Ans:** Law of gravitation is important to us because it is used to calculate force of attraction between two masses. It is used to calculate the mass of Earth.

**Q.9 Explain the law of gravitation?**

**Ans:** See Q. no.1 Long Question

**Q.10 How the mass of Earth can be determined?**

**Ans:** See Q. no.3 Long Question

**Q.11 Can you determine the mass of our moon? If yes, then what you need to know?**

**Ans:** Yes we can determine the mass of the moon by same method used to measure the mass of the Earth with the help of law of gravitation. The formula is:

$$M_m = \frac{gR^2}{G}$$

From the above relation it shows that we require,

$g$  = gravitational acceleration on the surface of moon =  $1.62 \text{ ms}^{-2}$

$R$  = Radius of moon =  $1.74 \times 10^6 \text{ m}$

$G$  = Gravitational constant =  $6.67 \times 10^{-11} \text{ N m}^2 \text{ kg}^{-2}$

**Q.12 Why does the value of  $g$  vary from place to place?**

**Ans:** See Q. no.4 Long Question

**Q.13 Explain how the value of  $g$  varies with altitude.**

**Ans:** See Q. no.4 Long Question

**Q.14 What are artificial satellites?**

**Ans:** Scientists have sent many objects into space. Some of these revolve around the Earth. These are called artificial satellites.

Large numbers of artificial satellites have been launched in different orbits around the Earth. They take different time to complete their one revolution around the Earth depending upon their distance  $h$  from the Earth.

**Q.15 How Newton's law of gravitation helps in understanding the motion of satellites.**

**Ans:** The motion of satellites is due to force of gravitation and this gravitational force is provided by Earth. As we know that Newton gave the law of gravitation. So, we can say that Newton help us in understanding the motion of satellites.

**Q.16 On what factors the orbital speed of a satellite depends?**

**Ans:** As we know that

$$v_s = \sqrt{g_h (R + h)}$$

So, we can say that orbital speed depends upon the gravitational acceleration and distance between the center of earth and the satellite.

**Q.17 Why communication satellites are stationed at geostationary orbits?**

**Ans:** The satellites in geostationary orbits remain all the time in front of target part of Earth so that direction of receiver's dish do not to be changed.

# Chapter 5 Physics Study Guide Answers

**DP Hallahan**



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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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a characteristic permanent load  $g_k$  of 800 kN and characteristic variable load  $q_k$  of 425 kN the presumed allowable bearing pressure of the non aggressive soil is 225 kN/m<sup>2</sup>  $f_{ck}$  30 N/mm<sup>2</sup>  $f_{yk}$  500 N/mm<sup>2</sup> concrete cover

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web the pad foundations are shallow foundation that take and spread point loads to the soil safely the pad foundation are preferred if the soil at the site have sufficient strength and is not too deep to construct the thickness of pad foundations are generally uniform

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web 6.8 structural design of foundations 6.6.9 preparation of the subsoil 2 section 6 of EN 1997-1 applies to pad strip and raft foundations and some the worked examples in this chapter consider the design of a pad footing on dry sand example 10.1 the same footing but eccentrically loaded example 10.2 a strip footing on clay

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