

3. (a) A solid shaft is transmitting 1 mW power at 240 rpm. Determine the diameter of the shaft if the maximum torque transmitted exceeds the mean torque by 20%. Take the maximum allowable shear stress as 60 N/mm². 7
- (b) Find the diameter of a solid steel shaft to transmit 20 kW at 200 r.p.m. the ultimate shear stress for the steel may be taken as 360 N/mm² and a factor of safety as 8. If a hollow shaft is to be used in place of solid shaft, find the inside and outside diameters when their ratio is 0.5. 8

4. The shaft and the flange of a machine engine are to be designed for flange coupling in which the flange is forged on the end of the shaft. The following particulars are to be considered in the design : 15
- (1) Power of the engine = 3 mW.
- (2) Speed of the engine = 100 rpm
- (3) Permissible shear stress in bolt and shaft = 60 N/mm².
- (4) Number of bolts used = 8
- (5) Pitch circle diameter = 1.6 diameter
- (6) Thickness of flange = $\frac{1}{3}$ dia of shaft.

Find :

- (i) Diameter of the shaft
- (ii) Diameter of bolts
- (iii) Thickness of flange
- (iv) Diameter of flange

SECTION – III

5. (a) What are the advantages of rope drives ? 4
- (b) Define the following related to gear : 4
- (i) Pitch circle
- (ii) Diametric pitch
- (c) Find the power transmitted by a belt running over a pulley of 600 mm diameter of 200 rpm. The coefficient of friction between belt and pulley is 0.25. Angle of Lap is 160°. Maximum tension in the belt is 2500 N. 7
6. (a) What is a brake ? What are the types of brake ? 4
- (b) Explain with neat sketch the shoe brake. 5

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web jan 19 2023 figure 1 top summary of digestion lab experimental setup in the first class period students are provided with five types of food that are expected to break down at different rates in a solution of papain the digestive enzyme using 12 glass vials the students prepare a papain group 6 vials and a tap water group 6 vials

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web may 30 2021 the following experiment will use various digestive enzymes and environmental conditions to examine the chemical digestion of foodstuff macromolecules carbohydrates lipids and proteins into the smaller molecules that comprise the macromolecules that we consume within our food

enzymes help us digest food nsta - Aug 16 2023

web activity lesson lesson plan note this resource vetted by nsta curators is provided to teachers along with suggested modifications to make it more in line with the vision of the ngss

3 2 enzyme teacher preparation notes biology libretexts - Dec 08 2022

web jul 11 2023 overview students learn about enzyme function enzyme specificity and the molecular basis of lactose intolerance through experiments with the enzyme lactase and analysis and discussion questions students engage in the scientific practices of designing and carrying out experiments and interpreting data

digestion and enzymes lab scientist cindy - May 13 2023

web we will learn about three main enzymatic concepts how the presence of enzymes allows us to digest foods at a faster rate how optimal environmental factors specifically ph and temperature affect the rate of enzymatic digestion how increased surface area increases chemical digestion and how amphipathic molecules help us digest fats

digestive enzyme digestive system quiz quizizz - Dec 28 2021

web 12 questions show answers q which substrate would this enzyme catalyze q enzymes are q this enzyme digests carbohydrate q this enzyme digests fats lipids q