

ASSIGNMENT-3

BRANCH- MECHANICAL ENGINEERING

SUBJECT- APPLIED MECHANICS

CHAPTER-SIMPLE MACHINES

SHORT ANSWER TYPE QUESTIONS

Q1. Define Simple Machine

Q2. Define Compound Machine

Q3. Define Load

Q4. Define Effort

Q5. Define Mechanical Advantage

Q6. Define Velocity Ratio

Q7. Define Efficiency of a Machine

Q8. Define Ideal Machine

Q9. Define Reversible Machine

Q10. Define Irreversible (Self Locking) Machine

LONG ANSWER TYPE QUESTIONS

Q11. Explain the difference between simple machine and compound machine

Q12. Give relationship between mechanical advantage, velocity ratio and efficiency of a machine

Q13. Give advantages of a machine

Q14. Explain law of machine in detail

Q15. Explain Reversible Machine in detail

Q16. Explain Irreversible Machine (Self Locking) in detail

Q17. Give expression for effort lost in friction

Q18. Give expression for load lost in friction

Q19. Explain how maximum mechanical advantage and maximum efficiency are determined

Q20. Explain various system of pulley in detail

Q21. Explain the working of simple screw jack

Q22. Explain the working of worm and worm wheel

Q23. Explain the working of single and double winch crab

Q24. Explain the working of Weston's Differential Pulley Block