

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA ENGINEERING – SEMESTER – IV • EXAMINATION – SUMMER- 2016

Subject Code: 3341903

Date: 17-05-2016

Subject Name: Theory of Machines

Time: 10:30 A.M to 1:00 P.M

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make Suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Use of programmable & Communication aids are strictly prohibited.
5. Use of only simple calculator is permitted in Mathematics.
6. English version is authentic.

Q.1

Answer any seven out of ten. દશમાંથી કોઇપણ સાતના જવાબ આપો.

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1. What is inversion of mechanism?
૧. મીકેનીઝમનું ઉત્ક્રમણ એટલે શું?
2. Define the following terms. (1) Link (2) Mechanism.
૨. નીચેના પદોની વ્યાખ્યા આપો. (૧) લિંક (૨) મિકેનીઝમ
3. Define the following terms. (1) Lower pair (2) Higher pair.
૩. નીચેના પદોની વ્યાખ્યા આપો. (૧) લોઅર પેર (૨) હાઇઅર પેર
4. Differentiate between machine and mechanism.
૪. મશીન અને મિકેનીઝમ વચ્ચેનો તફાવત સમજાવો.
5. What is turning pair? Give example of turning pair.
૫. ટર્નિંગ પેર એટલે શું? ઉદાહરણ આપી સમજાવો.
6. What is friction? List types of friction.
૬. ઘર્ષણ એટલે શું? ઘર્ષણ ના પ્રકાર જણાવો.
7. What is dynamometer? List types of dynamometer.
૭. ડાયનેમોમીટર એટલે શું? ડાયનેમોમીટર ના પ્રકાર જણાવો.
8. Define cam and state the function of cam.
૮. કેમની વ્યાખ્યા આપો અને તેનું કાર્ય જણાવો.
9. Differentiate between Flywheel and Governor.
૯. ફ્લાયવ્હીલ અને ગવર્નર વચ્ચેનો તફાવત સમજાવો.
10. Explain (1) Forced vibrations (2) Damped vibration.
૧૦. સમજાવો. (૧) ફોર્સ્ડ વાઇબ્રેશન (૨) ડેમ્પ્ડ વાઇબ્રેશન

Q.2**પ્રશ્ન. ૨**

- (a) Draw neat Sketch of any one inversions of a slider crank mechanism. **03**
 (અ) સ્લાઇડર ક્રેંક મિકેનીઝમ નું કોઇ પણ એક ઉત્ક્રમણ આકૃતિ દોરી સમજાવો. **૦૩**

OR

- (a) Draw neat Sketch of any one inversions of a Double-slider crank mechanism. **03**
 (અ) ડબલ સ્લાઇડર ક્રેંક મિકેનીઝમ નું કોઇ પણ એક ઉત્ક્રમણ આકૃતિ દોરી સમજાવો. **૦૩**

Gtu Exam Paper

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