



KERALA AGRICULTURAL UNIVERSITY
B.Tech.(Food Engg.) 2018 Admission
III Semester Final Examination-December 2019

Meen.2104

Kinematics of Machinery (2+1)

Marks: 50
Time: 2hours

I Fill in the blanks:

(10x1=10)

1. Ball bearing are usually made from _____.
2. The included angle of V belt is usually _____.
3. The size of gear is usually specified by _____.
4. The cross section of flywheel arms is usually _____.
5. The material used for lining of friction surfaces of a clutch should have _____ coefficient of friction.

State True or False

6. All stress are produced in the belt are tensile stresses.
7. V – belt are used for transmission of more power to factories and workshop.
8. A bearing is a machine element, which supports another moving machine element, is called Journal.
9. The light drives belts are of power up to 10 m/s.
10. 1GPa is equal to 10cm.

II Write Short notes on ANY FIVE of the following

(5x2=10)

1. Write the types of gears.
2. Define Friction.
3. Define Thrust Bearing with sketch.
4. Write about four bar Mechanism.
5. Write the types of friction clutch.
6. What is the use of flywheel?
7. What is kinematics?

III Answer ANY FIVE of the following

(5x4=20)

1. Write the types of Cams and its applications.
2. Write the different types of mechanism and its applications.
3. Explain about types of belts and its uses.
4. Write about sliding contact and rolling contact bearings.
5. Explain about the slip of belt.
6. Define governors and its uses.
7. What is meant by power drives?

IV Write an essay on ANY ONE of the following

(1x10=10)

1. Explain about the chain drive and classification with uses.
2. Describe about the types of governors.
