

GTU- Shantilal shah engineering college
Production engineering department
Sub: machine dynamics (2152509) Sem: 5

Tutorial: 7 (to study about governors and problems based on it)

Q-1 what is the function of governor? How does it differ from that of flywheel? Also give classification of governors.

Q-2 State different types of governors. Give the difference between centrifugal and inertia governor.

Q-3 Explain the term height of governors. Derive an equation for height in the case of watt governor and also give limitation of same

Q-3 what is stability of governor? Sketch the controlling force versus radius diagrams for stable, unstable and isochronous governor derive the condition of stability.

Q-4 Defines and explain following terms in relating to governor

1) Stability 2) sensitiveness 3) isochronism 4) hunting

Q-5 Writes a short note on "coefficient of insensitiveness".

Q-6 calculate following numerical from theory of machines by R.S.Khurmi and J.K.Gupta, S.Chand publication (EDITION 2009)

Example numbers: 18.1, 18.2, 18.3, 18.7, 18.9, 18.11, 18.13, 18.15,18.18, 18.20, 18.21, 18.23, 18.24, 18.29, 18.30