

GTU MID SEM-DOM(3151911)-AY 2021-22 - CO1- PART 1

Subject: Dynamics of machinery (3151911)

AcademicYear: 2021-22 (Odd)

Class: 5th Semester

Time : 15 minutes

Maximum 5 Marks will be count (all questions can be attempted)

* Required

* This form will record your name, please fill your name.

1

In internal combustion engines flywheel is used to _____ *
(1 Point)

- control energy variations
- control fuel going into engine
- control speed of vehicle
- none of the options

2

Turning moment diagram is a graph of _____ *
(1 Point)

- Torque and crank angle
- Bending moment and angle
- Force and crank radius
- None of the options

3

In flywheel, the energy is stored as _____ *
(1 Point)

- Kinetic energy
- Potential energy
- Electrical energy
- all of the options

4

The relation between radius of gyration (k) and crank radius (r) is _____ *
(1 Point)

- $k = r$
- $k = r/2$
- $k = r^2$
- none of the options

5

The coefficient of fluctuation of speed of Flywheel is given by $(N_1 - N_2)/N$, Where N_1 =Maximum speed, N_2 = Minimum speed, N =Average speed *
(1 Point)

- Correct
- Incorrect

6

The coefficient of speed varies with ____ *
(1 Point)

- Number of cylinders in the engine
- Length of connecting rod
- Number and arrangement of cylinders in the engine
- None of the options

7

In Punching press flywheel is used to reduce the amount of stresses generated between die and punch during punching operation *
(1 Point)

- FALSE
- TRUE

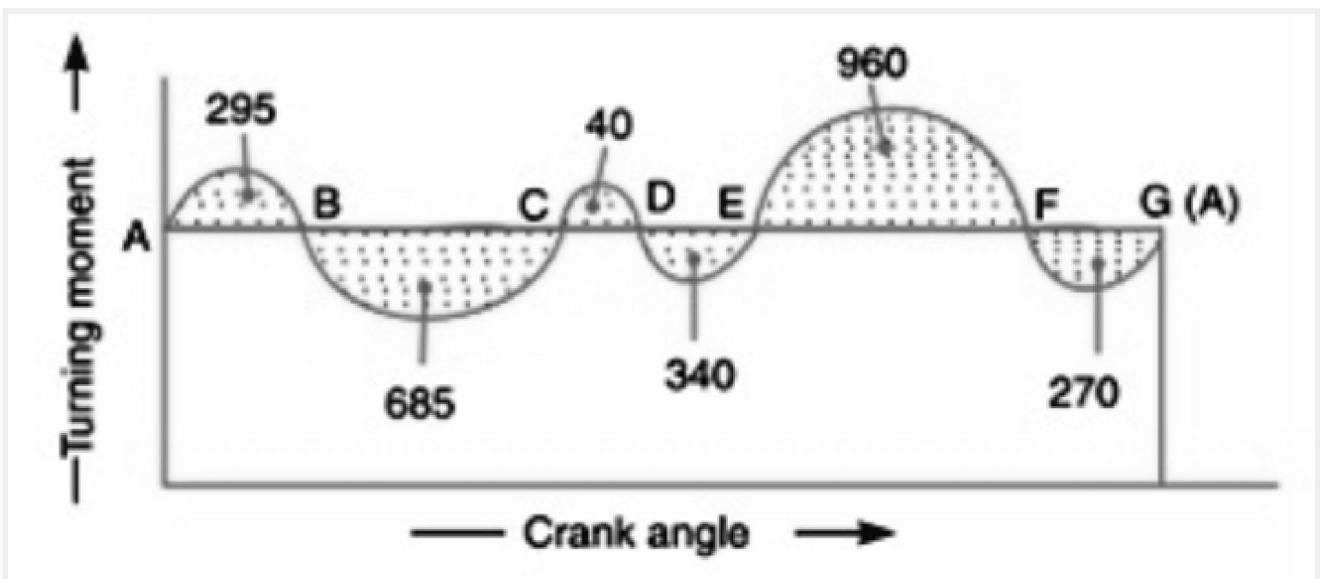
8

For a four cylinder engine, if the minimum speed of the engine is half of the maximum speed then the co-efficient of fluctuation of speed is _____ *
(1 Point)

- 0.5
- 1.5
- 2
- 0.66

9

The point at which maximum energy occurs and the point at which minimum energy occurs in the given turning moment diagram are _____ and _____ respectively *
(2 Points)



- E and B
- B and E
- C and F
- B and D

