No. of Printed Pages : 4 180345
Roll No. .....

4th Sem.
Branch : Auto
Subject : Automobile Engineering Drawing

Time : 3 Hrs. M.M. : 100

SECTION-A

Note: Multiple choice Questions. All Questions are compulsory. (5x1=5)

Q.1 Assembly of two mating parts is called. (CO-3)

a) Tolerance b) Limit

c) Deviation d) Fit

Q.2 The largest permissible size of a component is called. (CO-3)

a) Upper Limit b) Lower Limit

c) Clearance d) Deviation

Q.3 Toothed wheel for transmission of power is called.(CO-2)

a) Drive b) Gear

c) Cam d) Follower

Q.4 Difference between addendum and dedenum is called. (CO-2)

a) Clearance b) Module

c) Pitch d) Drive

Q.5 Wheel cylinder is a part of _____. (CO-2)

a) Hydraulic breaking system

b) Clutch

c) Mechanical brake

d) Engine

Section-B

Note: Objective type question. All Questions are compulsory. (5x1=5)

Q.6 The difference between maximum and minimum limits of size is called_____ (CO-3)

Q.7 In hole basis system the tolerance zone of _____is kept constant. (CO-3)

Q.8 Shock absorber is used to dampen the vibration during running of vehicle. (True/False) (CO-2)

Q.9 Write the name of the part of crankshaft that is connected to big end of connecting rod. (CO-2)

Q.10 Fuel injector is used in _____ engine. (CO-2)

SECTION-C

Note: Objective type questions. Attempt any four questions. (4x15=60)

Q.11 Describe limits, fits, tolerance and hold basis system and shaft basis system. (CO-3)

Q.12 Draw layout of crankshaft of four cylinder engine. (CO-1)

Q.13 Draw free hand sketch of overhead valve mechanism. (CO-1)

Q.14 Draw layout of Battery ignition system. (CO-2)

Q.15 Draw ball bearing by free hand drawing. (CO-2)

SECTION-D

Note: Attempt any one question out of two Questions.

(1x30=30)

Q.16 Draw profile of a cam of minimum radius 60mm. The knife edge follower moves with uniform velocity during both stroke and stroke length in 50mm. (CO-1)

i) Outstroke = 60 degree

ii) Dwell = 30 dgree

iii) Return Stroke = 60 degree

iv) Remaining Dwell = 210 degree

Q.17 Draw gear teeth profile of a spur gear having 25 teeth and module 10mm and pitch circle diameter 250 mm. Assume pressure angle as 20 degree. (CO-2)