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4th Sem. Branch: Automobile Engg.
Sub :Automobile Engg. Drawing

Time : 3 Hrs. M.M. : 100

SECTION-A

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

Q.1 The smallest permissible size of a component is called. (CO3)

a) Lower limit b) Upper limit
c) Fit d) Deviation

Q.2 It supports are guides rotating shaft. (CO2)

a) Cam b) Gear
c) Bearing d) Follower

Q.3 Clutch is a part of..... (CO2)

a) Braking system b) Suspension system
c) Transmission system d) Steering system

Q.4 Ratio of pitch circle diameter to the number of teeth of a gear is called. (CO2)

a) Pitch b) Module
c) Lift d) Clearance

Q.5 One part moves freely into other part of assembly is called. (CO3)

a) Push fit b) Running fit

c) Force fit d) Driving fir

Section-B

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

Q.6 In shaft basis system, the tolerance zone is of_____ is kept constant. (CO3)

Q.7 Zero line is the line of zero deviation and represents the basic size. (True/False) (CO3)

Q.8 _____ End of connecting rod is connected to piston pin. (CO2)

Q.9 Clutch pedal is pressed to engage the clutch. (True/False) (CO2)

Q.10 Write the name of any one method to draw tooth profile of spur gear. (CO3)

Section-C

Note: Attempt any four question . (4x15=60)

Q.11 Draw any two views of bush bearing by free hand sketching. (CO1)

Q.12 Describe nomenclature of spur gear by neat sketch. (CO2)

Q.13 Draw free hand sketch of battery ignition system. (CO1)

Q.14 Draw layout of shock absorber. (CO1)

Q.15 Draw layout of petrol engine piston. (CO2)

Section-D

Note: Attempt any one question. (1x30=30)

Q.16 Draw gear teeth profit of a spur gear having 20 teeth and pitch circle diameter is 200 mm. Take pressure angle 22 degree. (CO2)

Q.17 Draw the profile of a cam to raise a knife edge follower upto 45 mm lift with S.H.M. during out stroke and return stroke. (CO1)

(i) Minimum diameter of cam = 40 mm

(ii) Out stroke angle = 120 degree

(iii) Angle of dwell = 30 degree

(iv) Return stroke angle = 60 degree

Remaining is dwell.