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5th Sem / Auto
Subject:- Chasis, Body & Transmission - II

Time : 3Hrs. M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

Q.1 Shock absorber works on the principle of_____ friction. (CO1)

a) Fluid b) Solid
c) Air d) all of these

Q.2 Wish bone is the type of _____ suspension system. (CO1)

a) independent b) rigid Axle
c) air suspension d) all of these

Q.3 The advantages of tubeless tyre over tube tyre is (CO2)

a) Show air leakage
b) Better fuel efficiency
c) Less chances of running flat
d) All of the above

Q.4 Light alloy wheel are made up of (CO2)

a) Aluminium alloy b) Magnesium alloy
c) Both a and b d) Rubber used in them

Q.27 Give the comparison between cross ply tyre and radial ply tyre. (CO2)

Q.28 Draw the layout of air brake system (CO4)

Q.29 Explain the construction and working of single master cylinder. (CO3)

Q.30 Give the advantage and disadvantages of disc brake. (CO4)

Q.31 Give the requirement of good braking system (CO3)

Q.32 Explain hand brake or parking brake system (CO3)

Q.33 Explain the working of airbag in a modern automobile. (CO5)

Q.34 Describe the working of antilock braking system (CO5)

Q.35 Enlist the steps for prevention for preventive design. (CO5)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

Q.36 Explain the construction and working of Air Hydraulic brake with diagram. (CO4)

Q.37 Explain wheel balancing and its types with neat diagram. (CO2)

Q.38 Explain the principle, construction and working of Telescopic shock absorber with diagram. (CO1)

Q.5 The following is a type of a leaf springs (CO1)

a) Full elliptic b) Semi elliptic
c) Quarter elliptic d) All of these

Q.6 Which is a type of wheel. (CO2)

a) Pressed Steel disc wheels
b) Wire/spoke wheel
c) Light alloy cast wheels
d) All of the above

Q.7 In air hydraulic brake air pressure is converted into _____ pressure. (CO3)

a) Mechanical b) Electrical
c) Vacuum d) Hydraulic

Q.8 The process of removing air from the brake system is known as (CO4)

a) Vacuum b) Bleeding
c) Tapping d) Breaking

Q.9 Full form of EVS is (CO5)

a) Electric valve system
b) Electric volume supply
c) Electronic vehicle stability
d) None of the above

Q.10 Full form of ABS is (CO5)

a) Anti brake simulator
b) Automatic brake system
c) Anti Lock breaking system
d) None of the above

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

Q.11 Downturned is a _____ type of spring. (CO1)

Q.12 Define unsprung weight (CO1)

Q.13 Mac pherson strut system is a type of _____ suspension system (CO1)

Q.14 Define torsion bar (CO1)

Q.15 Define tyre 'SR' speed rating (CO2)

Q.16 Define aspect ratio of tyre. (CO2)

Q.17 Brake fluid not to be _____ (CO3)

Q.18 The holes in disc brake are for heat_____ (CO1)

Q.19 Brake chamber used in _____ braking system (CO4)

Q.20 EBD is termed as_____ (CO5)

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 Write down the principle of shock absorber. (CO1)

Q.22 Explain the construction of semi-elliptical leaf spring with diagram. (CO1)

Q.23 Explain different functions of suspension system (CO1)

Q.24 Write down the advantages of independent suspension system (CO1)

Q.25 Explain mac pherson strut suspension system (CO1)

Q.26 Write the steps to be taken for tyre care and maintenance. (CO2)