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220345

4th Sem. / Automobile
Sub. : Chassis, Body and Transmission-I

Time : 3 Hrs. M.M. : 60

SECTION-A

Note: Multiple choice Questions. All Questions are compulsory. (6x1=6)

Q.1 The transmission system transmits _____ from engine to wheels. (CO4)

a) Speed b) Power

c) Current d) Pressure

Q.2 Need of gear Box is _____. (CO4)

a) Vary speed of vehicle b) Vary Torque of vehicle

c) Vary Power d) Accelerate

Q.3 Powertrain consist of (CO6)

a) Clutch b) Gearbox

c) Differential d) All of the above

Q.4 Which material has highest coefficient of friction (CO3)

a) Fabric b) Asbestos

c) Ferodo d) Cork

Q5. Material used for pressure plate (CO3)

a) White C.I. b) Malleable C.I.

c) Low tensile grey C.I. d) High tensile grey C.I.

Q.6 Caster angle is between in degree (CO9)

a) 1 b) 2

c) 3 and 5 d) 7 and 8

SECTION-B

Note: Objective/Completion type questions. All questions are compulsory. (6x1=6)

Q.7 VIN stands for _____. (CO2)

Q.8 Write name of two wheeler manufactures in India. (CO2)

Q.9 The function of clutch is _____. (CO3)

Q.10 Advantage of epicyclic gear box is _____. (CO4)

Q.11 Write function of propeller shaft. (CO5)

Q.12 Where dead axle is used? (CO7)

SECTION-C

Note: Short answer type Questions. Attempt any eight questions out of ten Questions. (8x4=32)

Q.13 Explain front wheel drive. (CO1)

Q.14 Illustrate car body requirements. (CO2)

Q.15 Explain vehicle air conditioning. (CO3)

Q.16 Explain centrifugal clutch. (CO3)

Q.17 Write common faults and remedies in a clutch. (CO3)

Q.18 Explain working of a torque converter. (CO6)

Q.19 Draw universal joint and write its function. (CO6)

Q.20 Explain working principle of a steering system. (CO8)

Q.21 Write wheel alignment procedure. (CO9)

Q.22 Explain Ackermens steering mechanism. (CO8)

SECTION-D

Note: Long answer questions. Attempt any two questions out of three Questions. (2x8=16)

Q.23 Explain construction and working of single plate clutch. (CO3)

Q.24 Explain construction and working of constant mesh gear box. (CO4)

Q.25 Explain four wheeler chassis with diagram. (CO2)