

Q.24 Explain the working of Torque converter with diagram

Q.25 Explain in detail ADAS system?

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**6th Sem / Mechanical Engineering**

**Subject : Automobile Engineering**

Time : 3 Hrs.

M.M. : 60

**SECTION-A**

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

Q.1 Which is not an automobile?

- a) Aeroplane                      b) Trucks
- c) Passenger car                d) motorcycles

Q.2 Purpose of torque converter in Automobiles?

- a) Automatically control speed of engine
- b) Automatically multiplying engine torque
- c) Automatically multiplying vehicle torque
- d) Automatically multiplying speed of engine

Q.3 The portion of vehicle without body is ?

- a) Chassis                        b) Castor
- c) Camber                        d) Axle

- Q.4 I.C. developed in which year?  
a) 1908                      b) 1895  
c) 1885                      d) 1880
- Q.5 Which is the part component of hybrid vehicle?  
a) Battery  
b) Mechanical coupling  
c) Fuel tank  
d) All
- Q.6 Linkage type power steering is also known as  
a) Steering gear assembly  
b) Integral power steering  
c) Rack and pinion steering assembly  
d) Hydraulic pump assembly

### SECTION-B

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

- Q.7 Write types of drives  
Q.8 What is modern vehicles system  
Q.9 What is full form of CNG

(2)

221762

- Q.10 Define kingpin inclination  
Q.11 Write the function of clutch.  
Q.12 Define torque converter?

### SECTION-C

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

- Q.13 Explain classification of Automobiles?  
Q.14 Explain front wheel drives?  
Q.15 Explain overdrive?  
Q.16 Explain ABS & its working.  
Q.17 Explain coil springs  
Q.18 Explain Dynamo  
Q.19 Explain maintenance of batteries.  
Q.20 Explain function of shock absorber  
Q.21 Explain Toe In & Toe out  
Q.22 Explain wheel Balancing & Alignment

### SECTION-D

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

- Q.23 Explain Ackerman steering Mechanism with diagram.

(3)

221762