

# GUJARAT UNIVERSITY

## QUESTION BANK

**B.E. SEM. - VIII (MECHANICAL)**

**SUBJECT: AUTOMOBILE ENGINEERING (E.P.-II)**

1	What are the advantages and disadvantages of a passenger car with the engine mounted at the front and drive to front wheels.
2	Explain the construction and working of resonance type silencer with neat sketch.
3	Classify the frame and explain in brief.
4	Compare front and rear engine mounting.
5	Describe the procedure for registration for the motor vehicle.
6	Give the classification of clutch.
7	Explain the working of centrifugal clutch with neat sketch.
8	State causes and remedies in clutch system.
9	Explain construction and working of torque converter with neat sketch.
10	Explain working of overdrive with neat sketch and state its advantages.
11	Differentiate torque converter and fluid coupling.
12	Explain the working of constant mesh gear box with diagram.
13	What are the difference between Hotchkiss and torque tube drive?
14	List the constant velocity joints and explain any one.
15	Explain construction and working of differential unit with neat sketch.
16	Write short note on non-slip type differential.
17	Explain semi floating axle with neat sketch.
18	Sketch and explain front axle.
19	Write the advantages of independent suspension system.
20	Write short note on leaf spring.
21	Explain the need of suspension system and state its objective.
22	State the types of steering gears.
23	Describe the rack and pinion type steering gear box.
24	Explain under-steer and over steering.
25	Define (1) castor (2) camber (3) toe in and toe out, State their effect on steering geometry.
26	Write short note on power assisted steering.
27	Write the procedure for wheel alignment.
28	Give the classification of automobile brake.
29	Compare drum and disc brake.
30	What do you mean by self energizing brake?
31	What are the advantages and disadvantages of radial tyres?
32	Differentiate between radial ply and cross ply tyres.
33	State the function of battery and explain construction of automobile battery with sketch.
34	Explain the working of cranking motor.
35	Explain the typical lighting circuit diagram of a car.
36	Describe the construction and working of wind screen wiper.
37	How an automobile garage are classified? Explain in brief.
38	Enlist the various types of tools and equipment required in service station.
39	Explain the working of three way catalytic converter.
40	Write short note on Euro norms.