



## NARASIMHA REDDY ENGINEERING COLLEGE

(Autonomous)

Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad

Accredited by NAAC with A Grade, Accredited by NBA

### MECHANICAL ENGINEERING

#### QUESTION BANK

	UNIT-I	BO	CO	PO
S No	Question	Bloom's Taxonomy level	CO1	1,3
1	Write the classification of IC engines	Understand	CO1	1
2	Write the classification of Automobiles	Remember	CO1	1
3	Write the functions of carburetor in ic engines	Remember	CO1	1,2
4	How does the Zenith carburetor fulfill the requirements of a good Carburetor?	Remember	CO1	1
5	Explain the working of splash lubricating system with neat sketch	Remember	CO1	1
6	Explain the working of pressure lubricating system with neat sketch	Understand	CO1	1
7	Explain the working of dry sump lubricating system with neat sketch	Remember	CO1	1
8	Explain the working of wet sump lubricating system with neat sketch	Understand	CO1	2
9	Explain the working of mist sump lubricating system with neat sketch	Understand	CO1	2
10	Explain the working of mechanical fuel pump with neat sketch	Understand	CO1	1
11	Explain the working of electrical fuel pump with neat sketch	Remember	CO1	1
12	Explain the working of MPFI with neat sketch	Understand	CO1	1,2
13	Explain the working of SPFI with neat sketch	Understand	CO1	1,2
14	What are types of nozzles	Remember	CO1	1,2

**UNIT-II**

S No	Question	Bloom's Taxonomy level	CO	PO
1	With the help of a neat sketch explain the working of fuel supply system of an IC engine	Understand	CO2	1,2
2	Explain the working of magneto ignition system?	Remember	CO2	1,2
3	Explain the working of solid injection system with neat sketch	Understand	CO2	1,2
4	Explain the working thermo syphon system with neat sketch	Remember	CO2	1,2
5	Find the brake specific fuel consumption in kg/kWh of a diesel engine whose fuel consumption is 5grams per second when the power output is 80kW. If the mechanical efficiency is 75%, calculate the Indicated specific fuel consumption.	Understand	CO2	1,2
6	Explain air cooling system	Understand	CO2	1,2

**UNIT-III**

S No	QUESTION	Bloom's Taxonomy level	CO	PO
1	Explain the working clutch	Remember	CO3	1,2
2	Explain the cone clutch	Understand	CO3	1,2
3	Explain the working principle braking system	Understand	CO3	1,2
4	Explain the working principle of a CRDI with neat sketch	Remember	CO3	1,2
5	Upon what force does the operation of every type of brake depend? Explain?	Remember	CO3	1,2

**UNIT-IV**

S No	QUESTION	Bloom's Taxonomy level	CO	PO
1	Explain the construction of stub axle and wheel mounting.	Understand	CO4	1,4
2	What is hotch kiss and torque tube drive?	Understand	CO4	1,4
3	What is tractate effort? Why four wheel drive is used in some vehicles?	Remember	CO4	1,4
4	Explain Deion shaft drive mechanism with a neat sketch	Understand	CO4	1,4
5	Sketch and explain Davis steering Mechanism	Remember	CO4	1,4
6	What is meant by self-locking tendency of brakes? What factors helps this to occur?	Understand	CO4	1,4

	UNIT-V	BO	CO	PO
S No	QUESTION	Bloom's Taxonomy level		
1	What causes emissions of nitrogen oxides from an Automobile? What are its effects	Understand	CO5	1,4
2	What causes emissions of hydrocarbons from an Automobile? What are its effects?	Understand	CO5	1,4
3	Discuss the role of hydrogen as an alternative fuel in an IC engine	Remember	CO5	1,4
4	Explain solar cell with a neat sketch	Understand	CO5	1,5
5	What are the merits and demerits of LPG as a fuel in IC engine	Remember	CO5	1,5
6	What are the merits and demerits of CNG as a fuel in IC engine	Understand	CO5	1,5

**\* Blooms Taxonomy Level (BT)**

L1 Remembering;

L2 – Understanding;

L3 – Applying;

L4 – Analyzing;

L5 – Evaluating; L6 – Creating)

**Course Outcomes (CO)**

**Program Outcomes**

(PO)

**Prepared By:**

**HOD, ME**

**PVV SRINIVASA RAO**





