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BVOC
(SEM I) THEORY EXAMINATION 2021-22
TWO AND THREE WHEELER

Time: 3 Hours**Total Marks: 30****Notes:**

- Attempt all Sections and assume any missing data.
- Appropriate marks are allotted to each question, answer accordingly.

SECTION-A	Attempt All of the following Questions in brief	Marks(6X1=6)
Q1(a)	What is meant by Scavenging Process?	
Q1(b)	Give the various advantages and disadvantages of LPG as a fuel in Automobiles.	
Q1(c)	What is Chassis Frame and Sub-frame? Also write its types.	
Q1(d)	What are the advantages and disadvantages of Disk Brakes?	
Q1(e)	Briefly describe the working of Wrankel engine.	
Q1(f)	Write short note on Antilock Braking System	

SECTION-B	Attempt ANY THREE of the following Questions	Marks(3X3=9)
Q2(a)	Explain working principle of the valve timing diagram for four stroke SI engine.	
Q2(b)	Write Short Notes on any two of the following: i) Electronic Ignition System ii) Shock Absorbers iii) Octane Number	
Q2(c)	What is Chassis in a vehicle? Discuss the various types of Chassis.	
Q2(d)	Briefly explain the construction and working of Disk Brakes in an Automobile.	
Q2(e)	What are the various advantages of Radial Ply tyres?	

SECTION-C	Attempt ANY ONE following Question	Marks (1X3=3)
Q3(a)	What are the main components of reciprocating IC engines? Explain with the help of figure.	
Q3(b)	Discuss the working of choke and idling system in case of carburetor.	

SECTION-C	Attempt ANY ONE following Question	Marks (1X3=3)
Q4(a)	What is Cetane Number? How is Cetane number measured?	
Q4(b)	State the functions of lubricants in IC engine. Name the different types of lubrication systems used in engines.	

SECTION-C	Attempt ANY ONE following Question	Marks (1X3=3)
Q5(a)	Describe any one method of ignition systems used in IC engine with their Schematic arrangement.	
Q5(b)	What is front and rear suspension systems in automobiles? Discuss	

SECTION-C	Attempt ANY ONE following Question	Marks (1X3=3)
Q6(a)	How is Disc Brakes different from Drum Brakes? Explain	
Q6(b)	Discuss briefly the various types of Brake operating Systems?	

SECTION-C	Attempt ANY ONE following Question	Marks (1X3=3)
Q7(a)	What is meant by Wheel Balancing? Give the factors responsible for appropriate balancing of wheels?	
Q7(b)	What are the functional requirements of Tyres? How does Tyre tread pattern govern Tyre performance?	