

B.Sc (F&S) Semester-4 Examination**CC****Automobile Engineering****April-2024****Time : 2-30 Hours]****[Max. Marks : 70**

Q-1 A	Explain main parts of an I.C. engine with neat sketch.	7
Q-1 B	Write down Advantages and Disadvantages of Two stroke cycle engine over the four stroke cycle engine.	7
OR		
Q-1 A	Explain working of Diesel engine.	7
Q-1 B	Write down the Comparison between Petrol and Diesel Engine.	7
Q-2 A	Explain Tyre with their types.	7
Q-2 B	Explain Wheel with their types. Also Write down requirement of good wheel.	7
OR		
Q-2 A	Explain Carburetor with neat sketch.	7
Q-2 B	Why Ignition system is required in petrol engine? Explain coil ignition system.	7
Q-3 A	Why lubrication is required in automobile? Write down the main parts of an engine which require lubrication.	7
Q-3 B	Explain Airless or solid injection method with their types with neat sketch which is generally employed in diesel engine .	7
OR		
Q-3 A	Explain working of Automobile cooling system.	7
Q-3 B	Why lubrication is required in automobile? Write down the main parts of an engine which require lubrication.	7
Q-4 A	Explain Ground clearance and Grade ability of a vehicle.	7
Q-4 B	Explain different types of power take-off used for driving fire pumps.	7
OR		
Q-4 A	List out new safety features in automobile. Explain Traction control system.	7
Q-4 B	List out the different parts of carburetor with neat sketch and Explain working of carburetor.	7
Q-5	Answer the following question.	14
1.	Classify the I.C. engine according to the method of ignition of fuel.	
2.	The Function of carburetor is mixes the _____ & _____ in correct proportions, for proper combustion.	
3.	Write down the necessity of coil-ignition system in petrol engine?	
4.	Give the name of main parts of an engine which require lubrication.	
5.	List the types of wheel.	
6.	Write down a function of Differential.	
7.	Theoretically, a two stroke cycle engine should develop _____ (twice/thrice) the power developed by the four stroke cycle engine.	
8.	Define Angle of approach.	
9.	What is Drive axle and Dead axle in automobile?	

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10. In four stroke engine, The working cycle is completed in _____ revolution of crankshaft
 11. List out different types of supercharger used in automobile.
 12. List out sequence of operation in diesel engine.
 13. Write down types of Piston rings & their function.
 14. Petrol engine is also known as
 - i. Compression ignition engine
 - ii. Spark ignition engine
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