Roll No. _____

END SEMESTER EXAMINATION
SEMESTER –V

COURSE CODE : AUTO BODY WORK PRACTICE **DURATION : 3 (THREE)HRS**
COURSE TITLE : AE 508 **MAXIMUM MARKS : 75**
SESSION : JUL-DEC'2021 **PASS MARKS : 35 %**

NOTE: *1. Attempt any 5 (five) full questions*
2. Mark for each question is shown against it.
3. Assume suitable logical data wherever necessary.

1.	**(a)**	Explain the various requirements of automobile body.	**(6)**
	(b)	Discuss the various aspects of designing vehicle body so that the chances of accident taking place are minimum.	**(9)**
2.	**(a)**	Explain the various types of resistances to vehicle motion with usual notations.	**(5)**
	(b)	With the help of road performance curves, discuss the performance of a car.	**(10)**
3.	**(a)**	With the help of labelled diagram, explain the body structure of saloon car and pick-up.	**(2x5)**
	(b)	Draw body layout of a typical double decker bus.	**(5)**
4.	**(a)**	Discuss the body construction method commonly used in LMV.	**(10)**
	(b)	Explain streamlining of automobile body using figures.	**(5)**
5.	**(a)**	Discuss the following materials used in automobile body construction. (a) Sheet metal, (b) Aluminium alloys	**(2x5)**
	(b)	List the comfort and convenient systems used in automobiles and explain any one.	**(5)**
6.	**(a)**	With a suitable figure, explain the external dimensions of a car body.	**(5)**
	(b)	Discuss the chassis layout and body structure of a typical rigid truck.	**(10)**
7.	**(a)**	Discuss the chassis layout and body structure of a rigid 4x2 tractor and single axle 2 articulated trailers.	**(10)**
	(b)	With a suitable figure, explain the internal dimensions of a car body.	**(5)**
8.	**(a)**	Discuss the stability of a vehicle for the condition of "About to Overturn".	**(10)**
	(b)	Write a note on central locking system.	**(5)**

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