



JW-003-1277002

Seat No. _____

M. Sc. (ECI) (Sem. VII) (CBCS) Examination

October - 2019

Paper - 26 : Automobile & Automotive Electronics
(New Course)

Faculty Code : 003

Subject Code : 1277002

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

Instructions : (1) All questions carry equal marks.
(2) Figures on right hand side indicate marks.

- 1 Answer the following : (Any Seven) 14**
- (1) Define an automobile vehicle?
 - (2) Classified an automobile vehicle according to fuel use and it wheels.
 - (3) Enlist disadvantages of rear engine rear wheel drive.
 - (4) List out types of resistance a vehicle encounters during the motion.
 - (5) Briefly explain backbone tube type frame.
 - (6) Classified an automobile vehicle according to use.
 - (7) Differentiate single plate and multi-plate clutch.
 - (8) Classified an automobile vehicle according to transmission.
 - (9) Enlist the advantages and applications of single plate clutch.
 - (10) Briefly explain engine control and brake system.
- 2 Answer the following : (Any Two)**
- (1) Enlist the advantages of an automatic transmission. 7
 - (2) Write a note on control system of an automobile vehicle. 7
 - (3) Give advantages and disadvantages of rear engine rear wheel drive. 7

- 3** Answer the following :
- (1) Draw and explain hydraulic clutch. 7
 - (2) Write a note on multi-plate type of clutch. 7
- OR**
- 3** Answer the following :
- (1) Give the classification of universal joint. 7
 - (2) Draw and explain vacuum operated clutch. 7
- 4** Answer the following :
- (1) Write a detailed note on the Classifications of clutch. 7
 - (2) Briefly explain Front engine Front wheel drive. 7
- 5** Answer the following : (Any **Two**)
- (1) Draw and describe the structure and working of a cone clutch. 7
 - (2) Briefly explain Front engine Rear wheel drive. 7
 - (3) Write a note on vehicle body design consideration. 7
 - (4) Differentiate coil spring and diaphragm spring clutch. 7
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