**Karunya University**

**(Karunya Institute of Technology and Sciences)**

(Declared as Deemed to be University under Sec.3 of the UGC Act, 1956)

**Supplementary Examinations – June 2016**

**Subject Title: Basic Automobile Engineering Time : 3 hours**

**Subject Code: 14ME2017 Maximum Marks: 100**

**Answer ALL questions (5 x 20 = 100 Marks)**

1. Explain in detail about Constant mesh gear box with a neat sketch.

**(OR)**

2. Discuss in detail about centrifugal cultch with a neat sketch.

3. Derive an expression of Otto cycle with P-V diagram and T-S diagram.

**(OR)**

4. Discuss the classification of fuels in detail.

5. Comparison of petrol engine and diesel engine.

**(OR)**

6. Explain the working of four stroke C.I engine with neat sketch.

7. Write in detail about Engine Cooling systems.

**(OR)**

8. Discuss in detail about Pressure lubrication system with neat sketch.

9. **Compulsory:**

What are the recent trends in automobile? Explain.