Examination, December 2017

Choice Based Grading System (CBGS)
Heavy Vehicles and Automobile Engineering and

Safety

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- iii) Make sketches where necessary.
- All parts of each question are to be attempted at one place.
- a) Explain fuel feed system of CI engine with help of neat diagram.
  - Discuss the effect of supercharging and turbo charging on volumetric efficiency.
- 2. What is function of differential? Explain its working.
- 3. a) What are the major sources of air pollution?
  - b) Explain the working of lead acid battery.
- Explain fire fighting boat with its construction and operation with help of neat sketch.

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- 5. (a) What are the difference between battery ignition system and coil ignition system?
  - b) How anti-collision system of automobile work with the help of neat sketch.
- What is the necessity of engine cooling system? Explain its type with over cooling.
- Describe the different type of lubricating system.
- How automobiles exhaust is responsible for air pollution?
   What are Euro norms of emissions? Enlist pollution control techniques.

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