| 2018 III 14   | 1000   | Seat No. :  |
|---|--|---|
| Time : 2 Hours  | AUTON  | MOBILE ENGINEERING – II<br>(New Pattern)  |
|   | Subject Code V 3 2 2   | (New Fattern)   |
| Total No. of Questions : 5  | (Printed Pages : 2)  | Maximum Marks : 50  |
| ii) Wrocle iii) All iv) Fig v) Illu wh  1. A) Answer the following of i) What is the purpose fuel feed pump. ii) Define the term 'Pl iii) What are the cons iv) Name the compon v) Why antifreeze so vi) Which liquids are in | questions in one sentence se of hand priming pump phasing' of inline fuel injectitituents of Compressed National Entroleur lution added to the coolant usually used in the bellows | estion and sub-questions  y.  full marks.  h neat labelled diagrams  each:  rovided at suction side of  [1]  on pump.  atural Gas (CNG)?  m Gas (LPG) fuel system.  [1] |
| ii) List down any four  | fects' in simple carburetto<br>requirements of Diesel er<br>antages of Petrol Engine F   | ngine fuel injection system. [2]  |
| B) Explain the construction of neat line labelled sk  |  | em in diesel engine with help [4]   |



| 3. | A) | <ul> <li>Answer the following questions:</li> <li>i) Explain the use of following sensor in electronic fuel injection system: <ul> <li>a) Oxygen</li> <li>b) Throttle position.</li> </ul> </li> <li>ii) Write the function of the following parts in-corporated in Petrol Engine injection system: <ul> <li>a) Pumping element</li> <li>b) Metering element.</li> </ul> </li> </ul> | [1]<br>[1]<br>[1] |
|----|----|--|-------------------|
|    |    | iii) State any four advantages of Liquid Petroleum Gas (LPG).  | [2]               |
|    | B) | Explain construction and working of crescent type oil pump.  | [4]               |
| 4. |    | Answer the following questions:  i) State any four functions of lubricating oil.  ii) Write short note on 'Oil Cooler'.  iii) Explain 'Thermosyphon' water cooling method.  Draw neat labelled line diagram of Automobile Airconditioning system and   | [2 <sub>]</sub>   |
|    | ٥, | explain its working.   | [4]               |
| 5. |    | Answer the following questions:  i) Write the difference between water and Air Cooling method.  ii) Name any four pollutants emitted by diesel engine.  iii) Write short note on Flame (Halide) leak detector.  Explain construction and working of three way catalytic converter used in  | [2 <sub>1</sub>   |
|    |    | Automobile to control exhaust emission.  | [4]               |
|    |    |  |                   |

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