## BE/Sem VIII/CB395/AUTO/VM/7-12-2017

Q.P. Code: 27046

Time: 3 Hours Marks: 80 N.B: Question no.1 is compulsory. Solve any 3 from remaining Questions. Q. 1 Write answer for any four questions a) Where does maximum cylinder bore occur and why? b) What are the requirements of starting system of an automobile? c) Explain the principle operation of rear window defroster. d) Explain the phenomenon of roll over protection. e) What are the sources of differential noise and how it is diagnosed? f) What are the functions of wheel and tyre? Q. 2 a) Which type of automotive battery you will suggest for your vehicle? Support your answer with proper justification. 10 b) Explain the significance of combustion chamber in automobile and explain its types. 10 Q. 3 a) Explain cooling system diagnosis in detail. 10 b) What are the various lighting system controlled by head light switches? 10 Q. 4 a) Explain various security and anti-theft devices in detail. 10 b) How the service and repair passive belt system is carried out? 10 Q. 5 a) What is OBD-II and explain in detail. 8 b) What are the various lighting system controlled by head light switches? 8 c) Where does maximum cylinder bore occur and why? 4 Q. 6 A Write short note on: (Any Two) a) Flywheels 5 b) Exhaust gas re circulation. 5 c) Horns system 5 Q. 6 B Attempt any two a) What is the need of effective steering system? b) When headlights are switched from low beam to high beam, all headlights goes out: Technician A says that the problem may be a bad dimmer switch but Technician B says that the ignition switch may be bad. Who is correct? Give proper justification. While performing cooling system service on a hybrid vehicle: Technician A disconnects electric water pump. Technician B disables high voltage system before serving the engine. Who is

correct?