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| LOGO.jpg | **GEETHANJALI INSTITUTE OF SCIENCE & TECHNOLOGY**  (**AN AUTONOMOUS INSTITUTION**)  **(Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu)**  **(Accredited by NAAC with “A” Grade, NBA (EEE,ECE &ME) & ISO9001:2008CertifiedInstitution)** |
| **QUESTIONBANK(DESCRIPTIVE)**  **Subject Name with Code: Automobile Engineering & 22A0321Ta**  **Course & Branch: B Tech & MECH**  **Year& Semester: III & I** **Regulation: RG22** | |

**UNIT - I**

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| **S.No.** | **Question** | **[BT Level] [CO][ Marks]** |
| **2 Marks Questions (Short)** | | |
|  | Define the following (a) Chassis (b) Body (c) Engine (d) Frame | **[L2] [CO1][2M]** |
|  | Name the list of components of the engine | **[L2] [CO1][2M]** |
|  | How vehicles are classify according based on criteria | **[L2] [CO1][2M]** |
|  | What is the function of cylinder liners and describe the different types of cylinder arrangements | **[L2] [CO1][2M]** |
|  | Draw a neat sketch layout of positive crank case ventilation | **[L2] [CO1][2M]** |
| **Descriptive Questions (Long)** | | |
|  | Explain in detail about four wheel drive and mention each every parts with a neat sketch | **[L2] [CO1][12M]** |
|  | Explain the specifications of vehicle in detail and discuss | **[L2] [CO1][12M]** |
|  | Draw a neat sketch explain the splash lubrication system | **[L3] [CO1][12M]** |
|  | Explain the following terms a) crank case ventilation b) gear oil pump | **[L3] [CO1][12M]** |
|  | Define crankshaft. Briefly explain the types of lubrication systems in detail. | **[L3] [CO1][12M]** |
|  | List out the types of oil filter. Explain any one of the filter with a neat sketch | **[L3] [CO1][12M]** |
|  | Discuss the following terms a) valves b) connecting rod c) piston pin d) piston rings e) piston f) cylinder block are in detail | **[L3] [CO1][12M]** |

**UNIT - II**

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| **S.No.** | **Question** | **[BT Level] [CO][ Marks]** |
| **2 Marks Questions (Short)** | | |
|  | State the function of ignition system in a motor vehicle | **[L2] [CO2][2M]** |
|  | Draw a neat sketch of sparkplug and mention it each every parts | **[L2] [CO2][2M]** |
|  | List out the types of carburettor | **[L2] [CO2][2M]** |
|  | State the advantages of MPFI | **[L2] [CO2][2M]** |
|  | Compare between DTSI and conventional engine | **[L2] [CO2][2M]** |
|  | What are the new technologies in DTSI | **[L2] [CO2][2M]** |
|  | What re the benefits of GDI | **[L2] [CO2][2M]** |
|  | Draw a neat sketch of Multi-Point Fuel Injector and mention it parts | **[L2] [CO2][2M]** |
|  | Discuss the following terms a) Fuel injector b) Fuel pump | **[L2] [CO2][2M]** |
|  | Write difference between electronic ignition and coil ignition system | **[L2] [CO2][2M]** |
| **Descriptive Questions (Long)** | | |
|  | Explain the working principle of magneto coil iginiton system with a neat  sketch | **[L3] [CO2][12M]** |
|  | Explain the components of battery ignition system in detail | **[L2] [CO2][6M]** |
|  | Explain the working principle of electronic ignition system | **[L3] [CO2][6M]** |
|  | Explain the working principle of fuel injection system | **[L3] [CO2][6M]** |
|  | Draw and discuss the mechanical fuel pump in detail with a neat sketch | **[L2] [CO2][6M]** |
|  | Explain in detail about mechanical injector and state it advantages | **[L2] [CO2][6M]** |
|  | Explain the following terms a) Mono-Point Fuel Injector b) Multi point in detail | **[L2] [CO2][6M]** |
|  | Explain the working of EFI and in detail state it advantages | **[L2] [CO2][6M]** |
|  | Comparison between Battery coil ignition system and Magneto coil iginiton system | **[L3] [CO2][12M]** |
|  | Explain the working principle of GDI system in detail | **[L3] [CO2][12M]** |
|  | Explain the working of DTSI in detail and state it advantages | **[L3] [CO2][12M]** |