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| Cod | de No: 126EH JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year II Semester Examinations, April - 2018 AUTOMOBILE ENGINEERING | |
| | e: 3 hours (Common to ME, MCT) Max. Marks: 75 This question paper contains two parts A and B. | /. |
| 7.R | Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions. PART - A (25 Marks) | 7 |
| 1.a) b) c) d) e) f) g) h) i) | Indicate the different types of vehicle body. What aspects are to be considered in vehicle layout and drivers cabin? How an electric horn works? Explain briefly the construction and operation of the wind screen wiper. What is a damper? What is the function of torsion bar? Upon what force does the operation of every type of brake depend? Explain? What are steering ratio and steering stops? What is road noise? How to reduce it? What are the effects of earther managing from an extensibile? What are the effects of earther managing from an extensibile? | 7 |
| 7 R j) | What are the effects of carbon monoxide emissions from an automobile? [3] PART-B (50 Marks) | 7 |
| 2.a) b) | Explain briefly the constructional features of the various parts of a car body Sketch the mechanical pump and describe its working. OR [5+5] | x |
| 3.a) b) | How carburetors are classified? Explain the construction and operation of a simple Carburetor. Explain the working principle of a CRDI with neat sketch. [5+5] | 7 |
| 4.a) b) | Describe magneto ignition system with a neat sketch. What is the function of the spark plug? Explain its constructional features. OR [5+5] | |
| 5.a) b) 6.a) | What is meant by firing order? Give the firing order of 4 and 6 cylinder engines. What is the purpose of a radiator in an automobile? Explain its construction Explain the construction of stub axle and wheel mounting. | 7 |
| 7.a) b) | What is hotch kiss and torque tube drive? OR What is tractive effort? Why four wheel drive is used in some vehicles? Explain Dedion shaft drive mechanism with a neat sketch. [5+5] | 7 |
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