

| USN | | | | | 15AU561 |
|-----|----------|---|-------------------------------------|---|--|
| | | Fifth Semester | B.E. Degree E | xamination, June/ | July 2018 |
| | | | | Engineering | |
| Tim | e: 3 | hrs. | | > | Max. Marks: 80 |
| | No | te: Answer any FIVE f | ull questions, cho | osing one full question f | |
| | | * | Modu | | |
| 1 | a. b. | | | control methods used in preference of combustion chambers to | |
| | | | OI | } | |
| 2 | | engine with suitable diag | gram (SI engines) | | from that of four stroke (08 Marks) between air cooling and |
| _ | | water cooling. | Modu | ile-2 | (08 Marks) |
| 3 | | | | ds of finding octane ratir requirements for SI eng | ng of fuels. (08 Marks) gines (Air petrol mixture (98 Marks) |
| | >> | | OI | ₹ | (35)0 |
| 4 | a. b. | With a neat sketch expla With a block diagram (MPFI). | nt Fuel Injection System (08 Marks) | | |
| 5 | a. b. | | | <u>tle-3</u> gnition system with a cirem and Magneto ignition | cuit diagram. (08 Marks) |
| 6 | a. | Explain with a neat sket | OI ch. working princi | R ple of a single plate clute | h. (08 Marks) |
| | b. | | 7 | | unit used in synchromesh (08 Marks) |
| 7 | a. b. | Explain the following: | i) Camber | differential with neat sk ii) Caster | <u> </u> |
| | | | | ation iv) Toe-in and To | e-out. (08 Marks) |
| 8 | a. b. | Explain with a neat sket Briefly explain the class | | a recirculating ball type | steering gear. (08 Marks) (08 Marks) |
| 9 | a. | What are the good req | wirements of a su | | ention the advantages of |

b.

independent front suspension.

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

OR

10 a. With a neat sketch, explain positive crankcase ventilation.
b. Explain with a block diagram the catalytic converter package.

(08 Marks)

(08 Marks)

With a block diagram, explain the operation of antilock – braking system.

(08 Marks)

(08 Marks)

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