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July-22-00299

B. Tech. EXAMINATION, 2022

Semester V (CBCS)

AUTOMOBILE ENGINEERING

ME-505

l'ime : 3 Hours

Maximum Marks: 60

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note: Attempt *Five* questions in all, selecting *one* question from each Section A, B, C and D. Q. No. 9 is compulsory.

Section A

1. Define the function of automobile. Discuss the requirement of automobile body with suitable example.

10

Explain the construction and working of centrifugal clutch with neat and clean diagram.

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P.T.O.

Section B

- Explain construction, working and principle of synchromesh gear box and also mention its advantages and disadvantages.
- 4. Differentiate between three quarter floating and semifloating rear axles with neat diagrams. 10

Section C

- 5. Explain constructions, working and principle of shock absorber and also mention its merits. 10
- 6. Explain constructions and working of rack and pinion system with suitable example. 10

Section D

- Explain constructions, working and principle of drum brake and also mention its merits.
- 8. Discuss the purpose and operation of starting system with neat diagram.

(Compulsory Question)

- 9. Short answer type questions:
 - (a) Discuss clutch linkage.

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(b) Define the concept of gear box.
(c) Define the function of kind pin inclination.
(d) Define the function of brake.

Define the function of friction clutch.

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