

2019

Major 3rd Semester Examination  
**AUTOMOBILE MAINTENANCE**

Paper - C 5-T

(Transmission System Part-I)

Theory

Full Marks : 40

Time : 2 Hours

*The figures in the margin indicate full marks.  
Candidates are required to give their answers  
in their own words as far as practicable.*

1. Answer *any five* questions. 5×2=10
  - (a) What is dog pin ? 2
  - (b) Write down about the double helical gear. 2
  - (c) What is the main function of counter shaft ? 2
  - (d) What do you mean by total resistance ? 2
  - (e) Write down about the gear shifter lever ? 2

[ Turn Over ]

(f) Write down few points advantages of epicyclic gear-box. 2

(g) Write down purpose of gear-box. 2

(h) What do you mean by transfer case ? 2

2. Answer *any four* questions. 4×5=20

(a) Write short notes on "Lubrication of gear-box." 5

(b) Write down about the reverse gear. 5

(c) (i) What is the necessity of gear-box ?

(ii) Write down few points different between manual gear box and automatic gear box.

2+3

(d) (i) Give the classification of automatic gear box. 2+3

(ii) Enlisted the main parts of a gear box with neat sketch.

(e) (i) What is sliding mesh gear box ?

(ii) Compare between sliding mesh gear box and constant mesh gear box. 2+3

(f) (i) What do you mean by Synchromesh gear box ?

(ii) Compare between constant mesh gear box and synchromesh gear box. 2+3

3. Answer *any one* question. 1×10=10

(a) (i) Why is an idler gear used ?

(ii) Describe the working of a synchromesh gear box 2+8

(b) (i) What do you mean by semi automatic gear box ?

(ii) Describe briefly with neat sketch working principle of a constant mesh gear box. 2+8

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