

Seat No: _____

Enrollment No: _____

PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
Diploma Engineering, Mid semester Examination

Semester:5th

Subject Code: (03612303)

Subject Name: Automobile Transmission & Mechanism Diagnosis & Testing

Date: (08/08/2022)

Time: (1hr: 30min)

Total Marks: 40

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. English version is considered to be Authentic.

Q.1 Answer any six out of Ten. (2 Marks Each) (12)

1. Enlist the types of gearboxes.
2. Name the different components of clutch assembly
3. Explain the necessity of clutch
4. Give reasons for the leakage of gear oil.
5. On which principle the clutch works?
6. What is backlash? Name the device used to measure it
7. Explain line diagram of power flow from engine to rear axle assembly.
8. Write down the function of gearbox.
9. What do you mean by clutch drag?
10. Explain the necessity of clutch

Q.2 A) Write down the classification of clutch (03)

OR

A) Write causes and remedies for noisy gearbox. (03)

B) Write short note on clutch overhauling. (03)

OR

B) Give reasons for hard gear shifting. (03)

C) Explain Cause & Remedies for clutch noise when engaging (04)

OR

C) Explain Cause & Remedies for clutch Pulsate or Vibration. (04)

D) Explain Cause & Remedies for frequently worn out friction plate or clutch plate. (04)

Q.3 A) Give causes and remedies of "Power not transmitted by gear box" (03)

OR

A) Explain synchromesh gearbox its construction and working. (03)

B) Explain causes and remedies for vibrations at gear knob. (03)

OR

B) Explain Cause & Remedies for clutch Chattering or Grabbing when engaging (03)

C) Write short note on Gear box overhauling. (04)

OR

C) Write a note on gear shifting mechanism. (04)

D) Explain Cause & Remedies for clutch slip when engaging (04)

