

S. B. Roll No.....

**CHASSIS, BODY AND TRANSMISSION-I**  
**4<sup>th</sup> Exam/Auto/9319/Nov'17**

**Duration: 3Hrs.**

**M.Marks:75**

**SECTION-A**

**Q1. Fill in the blanks & True False.**

**1.5x10=15**

- a. Honda activa works with ..... type of clutch.
- b. A two piece parallel shaft requires.....
- c. The most effective section against bending is.....
- d. EPS works with ..... Type of steering gear.
- e. Slip joint is used to compensate..... in propeller shaft.
- f. AMT stands for.....
- g. Transfer box is used in ..... type of vehicles.
- h. Hotch kiss drive have two differential joints. **(T/F)**
- i. Reverse Elliot type steering head is used in tractor. **(T/F)**
- j. Ackerman's steering geometry works with sliding pairs.**(T/F)**

**SECTION-B**

**Q2. Attempt any five questions.**

**6x5=30**

- i. What do you mean by transfer box explain with neat sketch?
- ii. Differentiate between dry and wet palate clutch.
- iii. What do you mean by continues variable transmission explain briefly?
- iv. How many types of rear axles used in automobile explain briefly?
- v. Enlist the various types of front axles used in automobiles.
- vi. a) What are the functions of steering mechanism?  
b) Discuss any two terms from the followings:- Castor angle, Camber angle, Toe-in and Toe-out
- vii. Draw and explain propeller shaft briefly.
- viii. Explain semi centrifugal clutch with sketch.

**SECTION-C**

**Q3. Attempt any two questions.**

**15x2=30**

- a. Explain construction and working of torque convertor with neat sketch.
- b. Explain construction, working & determination of speed ratio of Epicyclical gear box.
- c. Write short note on following **(any three)**
  - i. Power steering
  - ii. Over running clutch
  - iii. Body upholstery
  - iv. Streamlining
  - v. Over drive