

C.U.SHAH UNIVERSITY

Winter Examination-2018

Subject Name: Two and Three Wheeler Technology

Subject Code: 4TE07TWT1

Branch: B.Tech (Automobile)

Semester: 7

Date: 04/12/2018

Time: 10:30 To 01:30

Marks: 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
-

- Q-1** **Attempt the following questions:** **(14)**
- a)** What is the use of reed valve in a two stroke petrol engine? **1**
- b)** Why centrifugal clutch is used in mopeds? **1**
- c)** What is ply rating? **1**
- d)** What do you understand by DTS-i? **1**
- e)** How many cells are used in a 12 volt car battery? **1**
- (A) 2
- (B) 4
- (C) 6
- (D) 8
- f)** In a single dry plate clutch, torsional vibrations are absorbed by **1**
- (A) Coil springs known as torsional springs
- (B) Cushion springs
- (C) Central hub
- (D) Clutch pedal
- g)** Damper is also known as **1**
- (A) Shock absorber
- (B) Torsion bar
- (C) Spring
- (D) Radius rod
- h)** The basic purpose of tyres is to **1**
- (A) Grip the road and provide good traction
- (B) Substitute for springs
- (C) Act as brake
- (D) None of these
- i)** In a ventilated disc brake **1**
- (A) A duct directs air towards the caliper for cooling while the vehicle is moving
- (B) Caliper is covered with cooling fins
- (C) Disc contains many small holes for optimum cooling performance
- (D) Disc contains radial vanes between its rubbing surfaces for optimum cooling performance
- j)** Which part of the automobile tyre is subjected to greatest flexing action? **1**



Q-8

Attempt all questions

(14)

(A) Compare tube and tubeless tyre.

7

(B) With the aid of sketches explain an Anti-lock braking system used in two wheelers.

7

