CBCS SCHEME

USN					17AU75	54

Seventh Semester B.E. Degree Examination, Feb./Mar. 2022 Two and Three Wheeled Vehicle

Max. Marks: 100 Time: 3 hrs. Note: Answer any FIVE full questions, choosing ONE full question from each module. Module-1 What is IC engine? List out the difference between two stroke and four stroke engine. 1 (10 Marks) With the aid of sketch, explain the construction of a 2 stroke engine. (10 Marks) Draw and explain port timing diagram of two stroke engine. (10 Marks) Explain the power system of a electric bike with simple block diagram. (10 Marks) Module-2 Explain the Fuel supply system with help of layout in two wheeled vehicles.

- (10 Marks) Explain the construction of a spark plug with a neat sketch. a.
 - b. Explain the construction and working of a magneto ignition system adopted in two wheeler (10 Marks) engines.

(08 Marks)

(08 Marks)

(04 Marks)

(10 Marks)

- List out the primary drives and briefly explain. (10 Marks) 5
 - Sketch and explain the working of multi-plate clutch. (10 Marks)

- Explain the construction and working of constant Mesh gear box with neat sketch. (10 Marks)
 - List out the types of gears used in motor cycle transmission, specify the gear ratio. (10 Marks)

Module-4

- Discuss the constructional detail of different frames used for 2 and 3 wheeled vehicle. (10 Marks)

Explain various types of carburetors used in two wheelers.

Compare Air cooling Vs water cooling system.

- b. Discus the following terms:
 - i) Shock absorber construction
 - ii) Controls on handle bar.

OR

- What are the advantages and disadvantages of disc brakes and drum brakes? (10 Marks) (10 Marks)
 - Explain the type of wheels and loads acting on wheels.

Module-5

- Write the advantages and disadvantages of front mounted engine in three wheeler. (08 Marks) 9 a.
 - Write a short note on ; i) Autorickshow ii) Engine location for 3-wheeler iii) Pickup van. (12 Marks)

OR

- List the types of maintenance. Explain the importance of maintenance. (08 Marks) 10
 - Write the decarburizing procedure for engine and silencer. (08 Marks) b. What are the points consider for the maintenance scheduling. (04 Marks)

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

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