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Total Number of Pages: 02

B.Tech
PEAT5301

5th Semester Back Examination 2017-18

TWO AND THREE WHEELERS

BRANCH: AUTO

Time: 3 Hours

Max Marks: 70

Q.CODE: B324

**Answer Question No.1 which is compulsory and any five from the rest.
The figures in the right hand margin indicate marks.**

- Q1 Answer the following questions: (2 x 10)**
- a) What is function of crankcase in two strokes engine?
 - b) What decides the spark gap?
 - c) What is the advantage DOH camshaft?
 - d) What is meant by non symmetrical intake timing?
 - e) What is the advantage of using three and four valves in motor cycle engines?
 - f) What are the functions performed by the lubricating oil?
 - g) What are the basic parts of the four stroke engine exhaust system?
 - h) Why centrifugal clutch is used in mopeds?
 - i) What are the different designs of frames of a two wheeler?
 - j) What is used in fuel to cool engine of two stroke vehicles?
- Q2 Name the major components of two stroke cycle engine and describe their functions. (2+8)**
- Q3 a) Explain the construction and operation of a four stroke engine with neat sketch. (5)**
- b) Differentiate between symmetrical and non symmetrical valve timing diagram. (5)**
- Q4 a) Explain construction and working of C.I engine for a three wheeler. (5)**
- b) Write down the working principle of DTSI engine. (5)**
- Q5 a) Differentiate between the magneto ignition system and the electronic ignition system? (5)**
- b) Write down the construction and working principle of front shock absorber. of three wheeler. (5)**

- Q6** a) Explain the construction and working of single plate dry clutch. **(5)**
b) Differentiate between the working of a mechanical and hydraulic braking systems. **(5)**
- Q7** Differentiate between construction and working of two wheeler and three wheeler transmission systems. **(10)**
- Q8** **Write short answer on any TWO:** **(5 x 2)**
a) Tyre and rim
b) Automatic scooters
c) Pick up van.and Delivery van.
d) Mopeds