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Roll No.

SEM.: FIFTH

B. Tech. Automobile Engg.

SUPPLEMENTARY EXAMINATION

Feb - 2019

Paper Code: AE - 311, Course Title: Tyre Technology

Time: 3 Hours

Max. Marks: 40

Note: (i) Answer ALL questions, (ii) Marks are shown against each question.
(iii) Assume suitable missing data, if any.

- Q.1 Answer all the following questions:
- [a] What is the purpose of mandrel puncture test tyre? [1.5]
 - [b] How tyre is designated? [1.5]
 - [c] What is the aspect ratio? [1.5]
 - [d] What is the field test performed on tyre on road? [1.5]
 - [e] What do you mean by tyre maintenance? [2]
- Q.2 Attempt any TWO questions out of the following:
- [a] Name the important parameters which can be measured by the laboratory test machines. [4]
 - [b] Explain how you can increase the life of the tyre? [4]
 - [c] Draw the neat sketch of tyre and label all its components. [4]
- Q.3 Attempt any TWO questions out of the following:
- [a] What are the causes of tyre wear? Also write their remedies. [4]
 - [b] Explain the different markings provided on the tyre. [4]
 - [c] What is Proving Grounds, explain in brief. [4]
- Q.4 Attempt any TWO questions out of the following:
- [a] Name different compound mixing Equipment. Explain Mixing process. [4]
 - [b] What do mean by tyre Building process. Explain. [4]
 - [c] What are the materials used in tyre construction? Explain. [4]
- Q.5 Attempt any TWO questions out of the following:
- [a] Write the process of Static Balancing of Front Wheel. [4]
 - [b] What are the merits of tubeless tyre over tubed tyre? [4]
 - [c] What are the factors on which the load carrying capacity of the tyre Depends. [4]