

Roll No.

Total No. of Pages : 2

Total No. of Questions : 09

B.Tech. (AE) (Sem.-7th & 8th)**VEHICLE MAINTENANCE AND INDUSTRIAL SAFETY**

Subject Code : AE-406

Paper ID : [A0726]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

SECTION-A**1. Write briefly :**

- a) What is an industrial accident?
- b) What is the purpose of safety?
- c) Why maintenance of vehicle is necessary?
- d) When breakdown maintenance is required?
- e) What do you understand by visual inspection?
- f) What are the possible causes of hard gear?
- g) What is wheel tramp in case of steering?
- h) What is dynamic unbalance?
- i) What happens if the fan belt gets loose?
- j) What ignition defects would cause the engine to overheat?

SECTION-B

2. Discuss the techniques of identification of industrial hazards.
3. How safety and productivity are related? Discuss.
4. Describe various safety precautions in maintenance.
5. Mention important precautions to be observed during the overhauling of piston-connecting rod assembly.
6. What is meant by calibration and tuning of an engine? Discuss.

SECTION-C

7. Discuss the common faults occurring in the engine cooling system and also suggest suitable remedies.
8. Write a note on wheel alignment.
9. Discuss the procedure of checking of an automobile battery.