

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(AE) (2011 Batch) (Sem.-7,8)
VEHICLE MAINTENANCE AND DIAGNOSTICS
Subject Code : BTAE-702
Paper ID : [A2933]

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) Write down the objectives of maintenance.
- (b) What are the benefits of CBM?
- (c) Explain thermography.
- (d) Write down the testing equipments.
- (e) What is ridge cutter?
- (f) What is machine oil?
- (g) Explain the term : CALPAK.
- (h) What is inspection by measurement?
- (i) Explain decarburizing.
- (j) What is MAP sensor?

SECTION-B

2. Discuss breakdown maintenance.
3. Explain oil debris spectroscopy.
4. Write down the difference wheel balancer and wheel aligner.
5. Discuss lubricant SAE 90-120.
6. Explain the CAM shaft grinding.

SECTION-C

7. What is bleeding of brakes? Explain drum and disc brakes.
8. Write a note on the following topic:
 - (a) Service engine soon.
 - (b) Fuel vapour canister.
9. Write a note on the following topic :
 - (a) Exhaust analyzer.
 - (b) Tyre inflation gauge.