

Roll No.....

Total No of Pages-01

BTECH-2014

VEHICLE MAINTENANCE AND INDUSTRIAL SAFETY

Paper Code (AVE-406)

Paper Id. [A0726]

Time : 3 Hrs

Maximum Marks: 60

Note: Do all questions from Section A

Do any four questions from section B

Do any two questions from section C

Draw neat and clean diagram where required and assume any missing data suitably.

SECTION -A

2X10

- Q1 (i) Draw the symbol of hazardous waste?
(ii) What is long term safety planning?
(iii) Which type of springs are used in clutch paltea?
(iv) Why logs sheet are prepared?
(v) What is wheelbase of a vehicle?
(vi) Braking of the front wheels is more as compared to rear wheels. Why?
(vii) How universal joint of propeller shaft is lubricated?
(viii) What is rack-bar? Where it is used?
(ix) What happened when wheels are not aligned?
(x) What is the cause of excessive tyre wear form the edges?

SECTION – B

- Q2 What are safety standards? Describe ant three safety standards in brief. 5
Q3 Describe different type of safety planning's with referenced to the range of planning. 5
Q4 What idling speed of engine? How it is set or maintained? 5
Q5 Why different grade of lubricating oil is used in different type of automobiles? 5
Q6 What is difference between wheel balancing and wheel alignment? 5

SECTION –C

- Q7 Why maintenance schedule of a vehicle is necessary? What would happen if it is not followed? 10
Q8 (i) What are engine mountings? 5
(ii) Describe in detail different type of suspension systems in detail? 5
Q9 Describe the steps and techniques of servicing a braking system of a car with disc brakes at the front and drum brakes at the rear? 10

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