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4762**BOARD DIPLOMA EXAMINATION, (C-14)
MARCH /APRIL-2019
DME - SIXTH SEMESTER EXAMINATION
AUTOMOBILE ENGINEERING**

Time: 3 Hours]

[Max. Marks : 80

PART -A

10 x 3 = 30M

Instructions: 1) Answer **all** questions.
2) Each question carries **three** marks.
3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

- 1) Define Chassis. List the various components of Chassis.
- 2) List out the common defects in frames.
- 3) Write any three functions of gear box.
- 4) List the components of clutch.
- 5) State the principle of friction clutches.
- 6) Define tractive resistance and tractive effort.
- 7) State the functions of propeller shaft.
- * 8) List the objectives of vehicle suspension system.
- 9) Differentiate live front axle and dead front axle.
- 10) What are the requirements of an automobile brake.

PART-B

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5X10=50M

Instructions: 1) Answer any **five** questions.
2) Each question carries **Ten** marks.
3) Answer should be comprehensive and the criterion for valuation is the content but not length of the Answer.

- 11) Explain the components of an automobile with a line diagram.
- 12) Explain the working of sliding mesh gear box with a line diagram.
- 13) Explain the working of multi plate clutch with a neat sketch.
- 14) Draw a neat sketch of differential and explain its working.
- 15) Explain the construction and working of a telescopic shock absorber with the help of a neat sketch.
- 16) Explain various alignment factors of steering geometry with relevant sketches.
- 17) Explain the working of hydraulic braking system with line diagram.
- 18) a) Explain briefly about hooke's joint.
b) Write the important functions of the steering system.

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