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BOARD DIPLOMA EXAMINATION, (C-14)

JUNE-2019

DME—SIXTH SEMESTER EXAMINATION

AUTOMOBILE ENGINEERING

Time : 3 hours]

PART—A

 $3 \times 10 = 30$

[Total Marks : 80

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**. What are the functions of a frame in automobile?
- **2.** List the functions of wheel and tyre.
- **3.** State the necessity of gear box in transmission system.
- **4.** Why lubrication is essential in automobile transmission?
- 5. State the necessity of clutch in transmission system.
- 6. List the different types of clutches.
- 7. Mention any three functions of differential.
- 8. List the various factors considered for suspension system.
- 9. State the purpose of wheel alignment.
- 10. What is meant by wheel skidding?

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Instructions : (1) Answer *any* **five** questions.

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(2) Each question carries **ten** marks.

PART-B

- (3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer
- **11.** Explain various types of chassis construction.
- **12.** Explain the components of automobile transmission system with line diagram.
- **13.** Explain the working of single plate clutch with a neat sketch.
- **14.** Explain the working of any one of the constant velocity type universal joint.
- **15.** Describe air suspension system with the help of line diagram.
- **16.** Explain the concept of under steering, over steering and correct steering of an automobile.
- **17.** Explain the working of hydraulic braking system with line diagram.
- **18.** (a) Explain briefly about semi-floating axle.
 - (b) Explain the principle of power steering with line diagram.

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