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C-14-M-606

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**BOARD DIPLOMA EXAMINATION, (C-14)  
OCTOBER/NOVEMBER-2018  
DME – SIXTH SEMESTER EXAMINATION**

**AUTOMOBILE ENGINEERING**

Time : 3 Hours ]

[ Total Marks: 80

**PART-A**

3X10=30

- Instructions :**
1. Answer **All** questions.
  2. Each question carries **Three** marks.
  3. Answer should be brief and straight to the point and shall not exceed five simple sentences.

1. What are the functions of a frame?
2. What are the defects in frame?
3. List out the types of gear boxes.
4. What do you mean by double declutching?
5. List out the clutch components.
6. What are the advantages of hydraulic clutch?
7. State the functions of rear axle.
8. What are the basic factors considered for suspension system?
9. State the functions of steering.
10. Mention the advantages of air brakes

**PART-B**

10X5=50

**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 the length of the answer

11. Draw the layout of automobile transmission system and label various units and explain about all the units.
12. Explain about the sliding mesh type of gear box with a neat line diagram.
13. Explain the working of multi-plate clutch with a neat sketch.
14. Explain the following with sketches:
  - (a) Semi-floating axle.
  - (b) Camber
15. Explain the working of differential in automobile with a neat sketch.
16. Describe the air suspension system with line diagram.
17. Explain about the Ackermann steering mechanism with a line diagram
18. Sketch and explain the construction and working of mechanical brake system.

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