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Code : 15AT32T

Register
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III Semester Diploma Examination, April/May-2019

AUTOMOBILE TRANSMISSION & CONTROL SYSTEMS

Time : 3 Hours]

[Max. Marks : 100

Instruction : (i) Answer any **six** full questions from PART – A.

(ii) Answer any **seven** questions from PART – B.

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PART – A

1. Draw the sketch of conventional frame (ladder type) and label the parts 5
2. Write a short note on integral type of chassis construction. 5
3. List the properties of good clutch lining. 5
4. State the purpose of gear box. 5
5. Draw a neat sketch of universal joint and state its functions. 5
6. State the purpose of final drive and mention different types of final drive. 5
7. Define camber angle and state its need. 5
8. Draw the layout of steering linkages for independent suspension system. 5
9. Draw the layout of hydraulic braking system and label the parts. 5

PART – B

10. Explain the construction and working of centrifugal type single plate clutch. 10
11. Explain the interlocking mechanism used in a gear boxes with a neat sketch. 10
12. Explain the construction and working of differential with a neat sketch. 10
13. Explain the construction and working of semi-floating axles with a neat sketch. 10
14. Explain the constructional features of the following : 10
- (i) Elliot stub axle
 - (ii) Reverse-Elliot stub axle
15. Explain the construction and working of re-circulating ball and nut type steering system. 10
16. Explain the construction and working of sliding calliper type disc brake. 10
17. Explain the construction and working of master cylinder with a neat sketch. 10
18. (a) List different types of springs used in suspension system. 5
- (b) Explain the construction of alloy wheel with sketch. 5
19. Explain the construction of tubeless tyre with sketch. 10

BETA CONSOLE

