

## SECTION-B

**Note:** Short answer type questions. Attempt any Six questions out of eight questions. (6x5=30)

- Q.11 Write the main advantages of electric vehicles.
- Q.12 List the various components of Hybrid electric vehicle drive train.
- Q.13 What are the benefits of hybrid electric drive trains?
- Q.14 What are the key components of electric drive train ? Explain.
- Q.15 Enlist the main factors which affect the range of electric vehicle
- Q.16 Compare conventional vehicle with hybrid electric vehicle
- Q.17 What are the main components of electric drives? Explain
- Q.18 Explain the process of using shock absorber as vibration energy harvesters in vehicles.

## SECTION-C

**Note:** Long answer questions. Attempt any one questions out of two questions. (1x10=10)

- Q.19 What are the main components of electric drives? Explain their working with diagram.
- Q.20 Explain the various components and working of regenerative braking system with diagram.

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**Dvoc - Level -5**

**1st Sem / Auto. Servicing, AMT**

**Subject : Modern Electric & Hybrid Vehicles**

Time : 2 Hrs.

M.M. : 50

## SECTION-A

**Note:** Very short questions. Attempt all ten questions.  
(10x1=10)

- Q.1 What is meant by an electric vehicle?
- Q.2 Write one disadvantage of an electric vehicle
- Q.3 Define electric traction
- Q.4 What is the best type of drive train?
- Q.5 What are the goals of power flow control of HEV?
- Q.6 Which are two sources of power used by today's hybrid vehicles?
- Q.7 Give use of power convertors in electric vehicle?
- Q.8 What is drive controller in electric vehicle?
- Q.9 Describe RBS
- Q.10 What does an energy harvester do?