H.P.BOARD OF DEPARTMENTAL EXAMINATION DEPARTMENTAL EXAMINATIONS OF IAS/ HAS OFFICERS OF HIMACHAL PRADESH SESSION APRIL, 2010

PAPER-12 (MOTOR MECHANISM AND DRIVING)

Time Allowed: 1.30 Hours.

Maximum Marks: 50

Note:- 1. Candidate may answer the question in Hindi/ English. 2. Attempt any five questions from part-A and five from part-B 3. Bare Act is allowed.

PART-1

Q.No.1 Explain the functions any five of the following in motor vehicle"-

- (i) Tyre
- (ii) Gear box
- (iii) Water body
- (iv) Differential
- (v) Injector
- (vi) Head gasket

Q.No.2 Explain the functions any five in the motor vehicle:-

- (i) Bearing
- (ii) Brake lining
- (iii) Grease
- (iv) Silineer muffler
- (v) Super charger/ Turbo charge
- (vi) Coolent

Q.No.3 What are the function of any five of the following in motor vehicle:-

- (i) Oil filter
- (ii) Laminated Spring leaves
- (iii) Wiper
- (iv) Spring wajher
- (v) Fan belt
- (vi) Lead Acid battery
- Q.No.4 Explain the function of four stroke and two stroke cycle engine with P.V. Diagram P= Pressure C= Volume
- Q.No.5 Explain the main function of the following:-
 - (i) Crank Shaft
 - (ii) Connecting rods
 - (iii) Steering Geometory

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Q.No.6 Define Alternator

PART-II

- Q.No.1 Explain the safety devices essential to be provided in two wheeler and Passenger car.
- Q.No.2 What are the qualification required to grant a Liceune of Conductor and what Are the formalities before obtaining the lincence.
- Q.No.3 What do you mean by Claim Tribunal, explain in details
- Q.No.4 Explain third party insurance
- Q.No.5 What are the essential documents/ tools required to be kept always with Vehicle during operation.
- Q.No.6 Draw sketch any five of the MANDATORY road signs with specification?

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