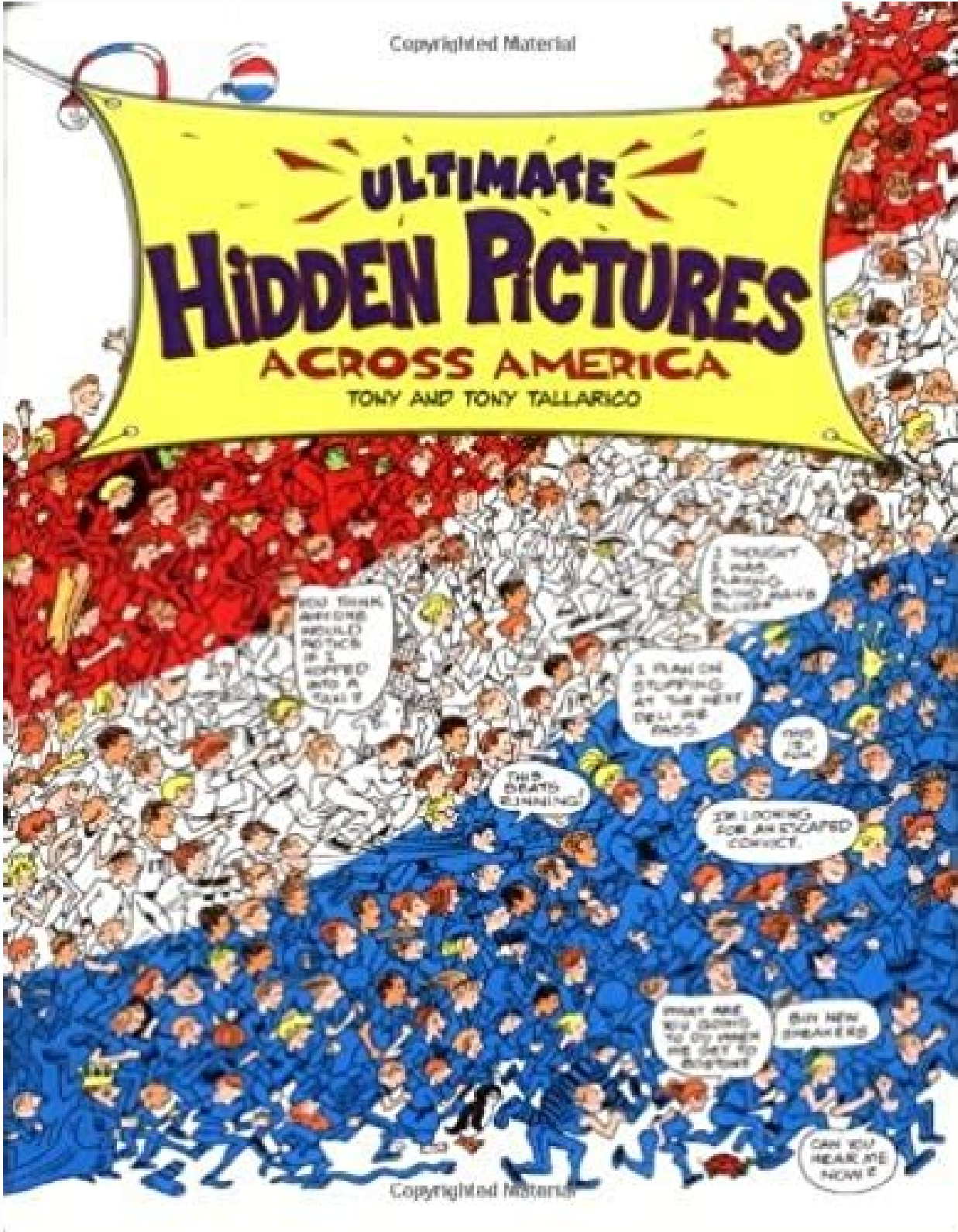
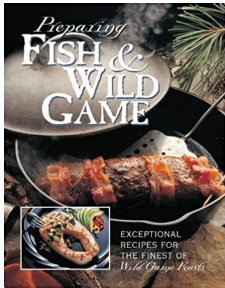


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Total Number of Pages: 02

B.Tech.
PEME5301

5th Semester Back Examination 2017-18
Automobile Engineering
BRANCH: MECH
Time: 3 Hours
Max Marks: 70
Q.CODE: B407

Answer Question No.1 which is compulsory and any five from the rest.
The figures in the right hand margin indicate marks.

- Q1 Answer the following questions: (2 x 10)**
- a) State the advantages of frameless construction. What are its disadvantages?
 - b) Why is the power of an engine expressed as 'Brake horsepower'? What are the historical facts for incorporating the words 'brake' and 'horsepower'?
 - c) Why can't water be used as brake fluid? Which car in India has distinction of using the disc brakes first?
 - d) What do you understand by 'Double De-clutching'?
 - e) What type of gear is preferred in transmission and why?
 - f) Why a slip is joint necessary to be used with the propeller shaft?
 - g) What do you mean by under steer and over steer?
 - h) What is dwell?
 - i) Define 'oiliness' of lubricating oil.
 - j) In what respects are the tractors different from trucks, other heavy commercial vehicles.
- Q2 a) A 3+ forward speed and one reverse speed gear box (sliding mesh type) has to be designed. The gear box should have the following gear ratio: (7)**
Top gear - 1:1, second gear - 1.5, third gear - 2.5 and reverse gear - 3.9.
The distance between the axes of main shaft and layshaft is to be kept at 80 mm. The clutch gear should have 16 teeth with a diametral pitch of 3.20 mm.
- b) What do you mean hybrid vehicle? Write two advantage of it. (3)**
- Q3 a) What necessitates enforcement of a Motor Vehicle Act? Describe provision of MVA 1988 and its difference from the older MVA 1939. (6)**
- b) A car has pivot pins 1.10 m apart, the length of each truck arm is 0.1525 m and the track rod behind the axle is 1.04 m long. Determine the wheelbase for true rolling of all wheels when the inner wheel stub axle is at 55° to the center line of the car. (4)**
- Q4 a) With the help of suitable diagram, explain the construction and the working of an Overdrive. (7)**
- b) How does the three-quarter-floating axle resist various loads/stresses? (3)**
- Q5 a) Explain the working of an electric brake with the help of a suitable diagram. Discuss its advantages and limitations. (5)**
- b) Describe the construction and working of starter motor for automobiles. (5)**
- Q6 a) With the help of a neat diagram describe Hotchkiss drive. How does it differ from Torque tube drive? (6)**
- b) Explain with neat diagram working of Differential? (4)**



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