

**D.M. – HEPATOLOGY**

**Paper I – APPLIED BASIC SCIENCES OF LIVER AND BILIARY  
SYSTEM INCLUDING PANCREAS**

*Q.P.Code: 161471*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Discuss the role of gut microbiota in health and chronic liver disease and applications in therapy of liver disease.
2. Discuss in detail the cell cycle of hepatocytes in response to liver injury or loss of liver mass- the regeneration apoptosis of liver cells.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Hepcidin.
2. HVPG – technique and importance in hepatology practice.
3. Hepatocyte nuclear Factor 6.
4. Pathophysiology of Pulmonary Hypertension.
5. Pit cells.
6. Altered lipid metabolism in liver disease.
7. Adiponectin
8. Functional anatomy of liver.
9. Eltrombopag in liver disease.
10. Histopathology of chronic hepatitis B and C.

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