



**ASSESSMENT 3<sup>rd</sup> MODULE (Lipid chemistry)**  
**1<sup>st</sup> Year MBBS**

**24/04/2020**

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**Total marks: 30**  
**Time Allowed: 35 minutes**

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- Q No. 1. Draw the structure of cholesterol and enlist its biological functions. (2.5)**
- a. **Classify apo-lipoproteins and their functions (2.5)**  
b.
- Q No. 2 Define :**
- a. Saturated fatty acids with example (2.0)  
b. Unsaturated fatty acids with example (2.0)  
c. Naturally essential fatty acids (1)
- Q No. 3 What are primary and secondary Bile acids ? (2)**
- a. Define micelles, chylomicrons, fat rafts (3)  
b.
- Q No. 4 Differentiate the following with example :**
- a. Cerebrosides & Gangleosides (2.5)  
b. Phospholipids & Glycolipids (2.5)
- Q No. 5 A 32 years old heavy smoker developed a sudden crushing chest pain. He was admitted to the casualty department. Myocardial infarction was diagnosed**
- a. Is there any relationship between smoking & myocardial infarction, if yes, what is it ? (3)  
b. Name the lipoproteins that have protective effect against development of Myocardial Infarction (2)
- Q No. 6 An male infant was admitted to hospital. Examination revealed the presence of Gaucher's disease**
- a. What is sphingolipidoses? (2)  
b. What is cause of Gaucher's disease and clinical symptoms? (3)