



Code No. : **018**

FACULTY OF SCIENCE
M.Sc. I Semester Examination, November/December 2012
BIO-CHEMISTRY
Paper – III (Bioenergetics and Biomembrances)

Time: 3 Hours]

[Max. Marks: 80

PART – A

(8×4=32 Marks)

(Short Answer Type)

1. Give an account on substrate level phosphorylation.
2. Discuss briefly about inhibitors of energy transfer.
3. Explain about Fluid Mosaic model of membrane.
4. Discuss about Micelles.
5. Give an account on Ionophores.
6. Write a brief note on passive and facilitated diffusion.
7. Explain about hill reaction.
8. What do you know about photorespiration ?

PART – B

(4×12=48 Marks)

9. a) Explain the mechanism of electron transport chain.
OR
b) Write an essay on biological oxidation.
10. a) Discuss about reconstitution of functional membrane systems.
OR
b) Give an account on the following :
 - i) Glycoproteins
 - ii) Artificial membrane.



11. a) Discuss about nerve transmission and action potential.

OR

b) Explain in detail about gated channels with an example.

12. a) Describe in detail about the significance of light and dark reactions.

OR

b) Write short notes on the following :

i) Photophosphorylation

ii) Differentiate C_3 and C_4 plants.
