



HDY-003-1103009

Seat No. _____

M. Sc. (Sem. III) (CBCS) Examination

November / December – 2017

Inorganic Chemistry

(C (I) - 303 : Advanced Bioinorganic Chemistry)

Faculty Code : 003

Subject Code : 1103009

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

Instructions : (1) All Questions are compulsory.

(2) All Questions carry equal marks.

1 Answer the following : (Any Seven) 14

- (a) Explain the mechanism of enzyme
- (b) Draw the nitrogen cycle
- (c) What is the use of Na pump in our body?
- (d) Explain electron carriers
- (e) Show the structure of transferrin
- (f) How Light reaction is useful in photosynthesis?
- (g) Give two names of the complex used as therapeutic agent.
- (h) Give the scheme for -ATPase
- (i) Discuss microbes
- (j) What is the role of Ca in our body?

2 Answer the following : (Any Two) 14

- (a) Give the role of metal ions in catalytic process
- (b) Write note on the work of Calcium pump in our body
- (c) Classify cytochrome *c* and *b*

- 3** Answer the following : (Any **Two**) **14**
- (a) Discuss Ionophores in detail
 - (b) Discuss the role of platinum complexes as therapeutic agent
 - (c) Explain dark reaction: The Calvin cycle
- 4** Answer the following : **14**
- (a) Discuss transport and metabolic function of Vitamin B₁₂ in human body
 - (b) Describe storage and transport of alkali and alkaline earth metals
- 5** Answer the following : (Any **Two**) **14**
- (a) Discuss the transport and storage of iron in plants
 - (b) Discuss the role of iron-sulphur proteins
 - (c) Explain the mechanism of enzyme action in our body.
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