

06/05/2015

Additional  
SYBSC SEM IV

**VCD // S.Y.B.Sc-SEM IV - BIOCHEMISTRY II -75 MARKS - 2 1/2 HRS 25 Note: 1.**

Figures to right indicate marks.

2. All questions are compulsory.

3. Draw appropriately labeled diagrams wherever necessary.

**Q I) A. Answer the following (any Four)**

[8]

- |                       |                             |
|-----------------------|-----------------------------|
| i. G-Actin.           | v. Myosin.                  |
| ii. Anisotropic band. | vi. Seismonastic            |
| iii. Thigmotropism    | vii. Cross bridge           |
| iv. Epinasty.         | viii. Circulation movement. |

**B. Explain the following: (any Two)**

[6]

- Give a short note on myofibril structure.
- Give a short account on function of calcium ion.
- Explain gravitropism with suitable example.
- Write a short note on phototactic and chemotactic movement.

**C. Answer in brief: (any One)**

[6]

- Briefly describe about the role of positive and negative neurotransmitter in muscle contraction.
- Explain role of auxins in geotropism.

**Q II] A. Answer the following questions: (any four)**

[8]

- |                             |                        |
|-----------------------------|------------------------|
| i. Nervous system.          | v. PNS                 |
| ii. Bipolar neuron.         | vi. Radial glial cell. |
| iii. Repolarisation         | vii. GABA.             |
| iv. Neuromuscular junction. | viii. Action potential |

**B. Answer the following questions in brief: (Any two)**

[6]

- Give a short note on functional classification of neuron.
- Give a short account on basic function of neuroglia.
- Explain basic principal of nerve impulse propagation.
- Write down the structure and function of acetylcholine.

**C. Answer the following questions in detail (any one)**

[6]

- Give schematic classification of nervous system.
- Draw a diagram of synaptic cleft and mention the mechanism of transmission.

**Q III] A. Answer the following questions: (any four)**

[8]

- Name the two important components of Blood.
- Give the function of globulin.
- Define primary bile acids.
- What is the function of lecithine?
- What is the composition of urine?
- What is the amount of blood that enters into the kidney during filtration?
- Give two abnormal constituents of urine.