



**Shree H.N.Shukla College of Science Rajkot**  
**B.Sc. (Sem- 3) (CBCS)**  
**BIOCHEMISTRY: [301]**  
**Unit test Paper-2019**

[Time: 1:00 Hour]

[Total Marks: 30]

**Q 1.**

**(A) Short answer Question 1 mark each , 5 questions**

1. Define carbohydrates.
2. Give any 2 functions of carbohydrates.
3. What is the meaning of reducing sugar
4. Define Dextrin and Epimers.
5. What is the meaning of glucosan and fructosan?

**(B) Answer in brief 2 marks each, any one , 2 questions**

1. Describe the epimers and enantiomers with an example.
2. Describe the polysaccharides in brief.

**(C) Write Short Note on. 3 marks each, any one , 2 questions**

1. Write a note on oligosaccharides and pectin.
2. Write a note on blood group polysaccharides and bacterial cell wall polysaccharides.

**(D) Write in detail. 5 marks each, any one , 2 questions**

1. Write a detail note on structural polysaccharides.
2. Write a note on chemical properties of carbohydrates due to their functional groups.

**Q 2.**

**(A) Short answer Question 1 mark each , 5 questions**

1. Define vitamins.
2. Define porphyries.
3. "Vitamines" word coined by \_\_\_\_\_
4. Give the common name of vitamin B<sub>1</sub>, B<sub>6</sub>, B<sub>5</sub> and B<sub>12</sub>.
5. Vitamin E is known as \_\_\_\_ factor and Vitamin K is known as \_\_\_\_ factor.

**(B) Answer in brief 2 marks each, any one , 2 questions**

1. Describe Wernicke – Korsakoff syndrome.
2. Give properties of water soluble and fat soluble vitamins.

**(C) Write Short Note on. 3 marks each, any one , 2 questions**

1. Explain Wald's visual cycle.
2. Describe deficiency symptoms of Folic acid, Vitamin B<sub>12</sub> and Vitamin A.

**(D) Write in detail. 5 marks each, any one , 2 questions**

1. Write a detailed note on Vitamin B family.
2. Write a note on biological functions of Vitamin A, C and E.

**Q 3.**

**(A) Short answer Question 1 mark each , 5 questions**

1. Define vitamins.
2. Define porphyries.
3. "Vitamines" word coined by \_\_\_\_\_
4. Give the common name of vitamin B<sub>1</sub>, B<sub>6</sub>, B<sub>5</sub> and B<sub>12</sub>.
5. Vitamin E is known as \_\_\_\_ factor and Vitamin K is known as \_\_\_\_\_ factor.

**(B) Answer in brief 2 marks each, any one , 2 questions**

1. Describe Wernicke – Korsakoff syndrome.
2. Give properties of water soluble and fat soluble vitamins.

**(C) Write Short Note on. 3 marks each, any one , 2 questions**

1. Explain Wald's visual cycle.
2. Describe deficiency symptoms of Folic acid, Vitamin B<sub>12</sub> and Vitamin A.

**(D) Write in detail. 5 marks each, any one , 2 questions**

1. Write a detailed note on Vitamin B family.
  2. Write a note on biological functions of Vitamin A, C and E.
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