

# उत्तर प्रदेश राजर्षि टण्डन मुक्त विश्वविद्यालय, इलाहाबाद

परास्नातक कार्यक्रम अधिन्यास सत्र 2017-18

Post Graduate Science Programme

कोर्स कोड : Course Code: PGBCH-03	कोर्स शीर्षक:- (Course Title) <b>Nutrition and physiology</b>	अधिकतम अंक : 30 Maximum Marks : 30
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खण्ड - 'अ'

Section 'A'

दीर्घ उत्तरीय प्रश्न

Long Answer Questions.

**नोट :** किन्हीं तीन प्रश्नों के उत्तर 800 से 1000 शब्दों में लिखें।

**Note:** All questions are compulsory. Each question should be answered in 800 to 1000 Words.

Q.No. 1: Describe the Nature Occurrence, structure and biological importance of vitamin A.

Q.No. 2: Discuss the significance of hormones of adrenal Medulla.

Q.No. 3: Discuss the components of Immune System.

Q.No. 4: Describe basal metabolic rate and discuss factors affecting it.

Q.No. 5: Enumerate various types of cells present in blood and describe their functions.

Q.No. 6: Discuss composition and functions of pancreatic juice and bile.

Q.No. 7: Describe measurement of calorific value of food and discuss important functions of nutrients?

Q.No. 8: Describe biochemical roles of riboflavin, niacin and folic acid in metabolism?

Q.No. 9: Differentiate between serum and plasma, give detailed account of blood coagulation?

खण्ड – ब  
**Section - B**  
लघु उत्तरीय प्रश्न  
Short Answer Questions.

अधिकतम अंक: 12  
Maximum Marks: 12

**नोट :** किन्हीं चार प्रश्नों के उत्तर 200 से 300 शब्दों में लिखें।

**Note:** Write any four questions. Answer should be given in 200 to 300 Words.

- Q.No. 1: Describe different types of viral vaccine.
- Q.No. 2: Give an account of  $\beta$ -Oxidation of fatty-acids.
- Q.No. 3: Describe synaptic transmission.
- Q.No. 4: Trechanism of action of cyclic AMP and the cascade effect.
- Q.No. 5: Define protein quality.
- Q.No. 6: Explain biochemical functions of vitamin-B complex.
- Q.No. 7: Describe breathing and its regulation.
- Q.No. 8: Describe essential amino acids.
- Q.No. 9: Protein quality,
- Q.No. 10: Composition of bile,
- Q.No. 11: Regulation of breathing,
- Q.No. 12: BMR