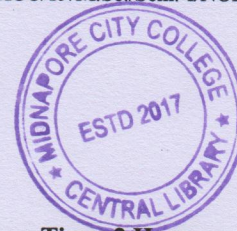


PG (NEW) CBCS
M.Sc. Semester-I Examination, 2019
NUTRITION & DIETETICS
PAPER: NUD-101
 (Physiological Aspects of Nutrition)



Full Marks: 40

Time: 2 Hours

Write the answer for each unit in separate sheet

Unit-1

(Physiological Aspects of Nutrition I)

Group-A

- 1. Answer any two of the following questions:** **2×2=4**
- a) Write the functions of 'Secretin' hormone.
 - b) What do you mean by 'Tidal volume'?
 - c) Write the function of hemoglobin.
 - d) Define anatomical dead space.

Group-B

- 2. Answer any two of the following questions:** **2×4=8**
- a) i. Mention the functions of plasma protein. 2+2
 ii. Briefly describe the functions of liver in food digestion. 2+2
 - b) Write the compositions & functions of gastric juice. 2+2
 - c) i. Define GFR. Write its normal value. 1+1+2
 ii. Write the non excretory functions of kidney. 1+3
 - d) i. Write the functions of chymotrypsin. 1+3
 ii. Briefly describe the physiological importance of entero-hepatic circulation. 1+3

Group-C

- 3. Answer any one of the following questions:** **1×8=8**
- a) i. How kidney regulates blood pressure? 4+3+1
 ii. Describe the factors affecting GFR.
 iii. What is TmG? 4+3+1
 - b) i. How does Co₂ transports in the blood? 4+1+2+1
 ii. What is Haldane effect? Mention its Significance.
 iii. What is oxyhemoglobin? 4+1+2+1

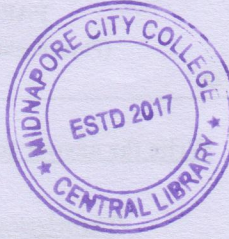
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Unit- 2
(Physiological Aspects of Nutrition II)

Group-A**1. Answer any two of the following questions:****2×2=4**

- a) Write the functions of Plasma Bcell.
- b) What is blind spot?
- c) Write the functions of FSH in male.
- d) Name the Xth cranial nerve & mention one of its function.

**Group-B****2. Answer any two of the following questions:****2×4=8**

- a) i. What do you mean by humoral immunity?
ii. Briefly describe the mechanism of development of cellular immunity. 1+3
- b) i. What are the causes of Cushing Syndrome?
ii. Mention its clinical features. 2+2
- c) i. Define spermatogenesis.
ii. Briefly describe the factors affecting spermatogenesis. 1+3
- d) Briefly describe the sweet & sour taste sensation pathways with suitable diagram.

Group-C**3. Answer any one of the following questions:****1×8=8**

- a) i. What do you mean by menstrual cycles?
ii. What are the uterine changes that occur during menstrual cycle?
iii. What do you mean by oligospermia? 2+4+2
- b) i. Define 'Diabetes mellitus'
ii. Mention the symptoms of 'Diabetes mellitus'.
iii. Briefly describe the indirect role of parathormone on calcium homeostasis. 2+2+4
