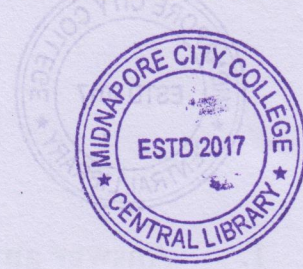


PG (NEW) CBCS
M.Sc. Semester-I Examination, 2018
NUTRITION & DIETETICS
 PAPER: NUD-101
 (Physiological Aspects of Nutrition)

**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) What is Chemoreceptor?
 - b) Write the functions of gastrin?
 - c) What is JG apparatus?
 - d) Define RQ.

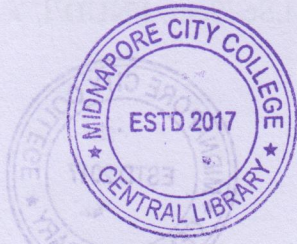
Group-B

- 2. Answer any two of the following questions: 2×4=8**
- a) i) What is myocardial infarction? 2×4=8
 - ii) How electrical potential is produced in Pacemaker tissue? 1+3=4
 - b) i) What is chyme?
 - ii) Write the composition and functions of bile. 1+3=4
 - c) i) What is GFR?
 - ii) Write the non-excretory functions of kidney. 2+2=4
 - d) How O₂ is transported in the blood? 4

Group-C

- 3. Answer any one of the following questions: 1×8=8**
- a) i) Discuss the process of deglutition. 1×8=8
 - ii) How fat is digested in the GI tract? 4+4=8
 - b) i) What is chloride shift? Mention its significance.
 - ii) Write the role of kidney in the regulation Blood pressure. (1+2)+5=8

(Turn Over)



Unit- 2
(Physiological Aspects of Nutrition II)

Group-A

1. Answer any two of the following questions: 2×2=4
- a) What is PAMPs?
 - b) What is ERG?
 - c) State the role of immunoglobulin present in colostrum.
 - d) Write the names of hormones involved in menstrual cycle.

Group-B

2. Answer any two of the following questions: 2×4=8
- a) i) What is antigen?
ii) What happens if the antibody monomer is treated with pepsin, papain and marcaptoethanol? 1+3=4
 - b) i) What is action potential?
ii) Write the difference between sympathetic and parasympathetic divisions of ANS. 1½+2½=4
 - c) i) What is forea centralis?
ii) Write a short note on 'photo receptor'. 1+3=4
 - d) i) State the role of sertoli-cells on spermatogenesis.
ii) What is PSA? 3+1=4

Group-C

3. Answer any one of the following questions: 1×8=8
- a) i) What is Oogenesis?
ii) Briefly describe the process of Oogenesis.
iii) What is Menopause? 2+4+2=8
 - b) i) What is autoimmunity?
ii) Write a note on "Hashimoto's thyroiditis"
ii) Discuss the classical path way of complement activation? 2+3+3=8
