

2018-19

MCC/19/M.Sc./Sem.-II/FSN/1

Total page: 2

**PG (NEW) CBCS**  
**M.Sc. Semester-II Examination, 2019**  
**FOOD SCIENCE & NUTRITION**  
**PAPER: FSN-201**  
**(NUTRIENTS AS HEALTH MODULATORS)**

**Full Marks: 40****Time: 2 Hours**

- 1. Answer any four from the following questions: 4×2=8**
- a) 'HDL is good biomarkers of heart'- why? 2
  - b) Write anyone source of omega 3 fatty acid form plant and one source of animal origin. 1+1
  - c) Write the role of energy on immunity.
  - d) Write the name of one saturated fatty acid and one unsaturated MUFA.
  - e) What do you mean by phorphagen system?
  - f) Write the names of any two dietary ergogenic aids.
  - g) Define sports performance.
  - h) Write the full forms of PKU and MSUD.
- 2. Answer any four from the following questions: 4×4=16**
- a) Describe biogenesis of triglyceride in liver.
  - b) "LDL plays a role for onset of cardiovascular diseases" justify the statement.
  - c) Describe the role of omega 3 fatty acid on cardiac status.
  - d) 'Liver regulate blood lipid'-justify the statement through flow chart.
  - e) State role of energy production form glucose under the influence if epinephrine in long duration of exercise.
  - f) Describe the role of any two dietary organic acids on sports performance.
  - g) Clarify exercise on the basis of energy need with example. Write in brief about pre-game meal. 2+2=4
  - h) "Muscle mass of athelet control the performance"-justify the statement critically.

**(Turn Over)**



(2)

**3. Answer any one from the following questions:****8×1=8**

a) i) Give a flow chart on the molecular mechanism of atherosclerosis with suitable diagram.

ii) Write the role of protein on immunity.

**4+4=8**

b) i) Define glycogen loading.

ii) State the process of glycogen loading with its different phases.

iii) Write the amount of stored glycogen in adult individual with tissue distribution.

**1½+5+1½=8**

\*\*\*\*\*

