

2017**M. Phil.****2nd Semester Examination****LIFE SCIENCE****PAPER — LSC-121***Full Marks : 40**Time : 2 Hours**The figures in the right-hand margin indicate full marks.**Candidates are required to give their answers in their own words as far as practicable.**Illustrate the answers wherever necessary.***(Non-communicable disease and life style)****Answer all questions.****Group - A****1. Answer any four questions :** 4×2

- (a) What do you mean by Fast food ?
- (b) Classify different types of diabetes.
- (c) Mention the cautions of practicing yoga in children.
- (d) State the symptoms of schizophrenia.

(Turn Over)

- (e) What is the difference between drug addiction and drug abuse ?

Group - B

2. Answer any *four* questions : 4×4

- (a) Discuss the different causes and risk factor of obesity.
- (b) "Prevalence of infertility is gradually increasing in our society". Justify the statement from the view point of fast food inclusion in our daily menu.
- (c) State how practice of yoga improves blood circulation.
- (d) With a suitable diagram briefly describe the process of development of cancer.
- (e) Discuss how PET scanning helps us to detect the effect of alcohol on brain.
- (f) Discuss the strengths and weakness of descriptive study designs in epidemiology.

Group - C

3. Answer any *two* questions : 2×8

- (a) What do you mean by A, B and C types of haemophilia ?

- (b) When a carrier 'Haemophilic' female married a normal male, then what would be the possibility of that haemophilic-A in F_2 generation considering marriage of the offspring of F_1 generation ?
- (c) (i) Discuss the role of growth factors on cell cycle control system of tumor cell.
- (ii) "Abnormalities in brain development during adolescence may contribute to schizophrenia"—
Explain. 5+3

Or

- (i) What are the modifiable risk factors for communicable diseases ?
- (ii) Explain schematically the homeostasis of normal blood glucose level. 3+5
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