## **STELLA MARIS COLLEGE (AUTONOMOUS)** CHENNAI 600 086 (For candidates admitted from the academic year 2015 – 2016)

## **SUBJECT CODE: 15ZL/AE/HI45**

# **B. Sc. DEGREE EXAMINATION, APRIL 2017** FOURTH SEMESTER

#### COURSE : ALLIED – ELECTIVE PAPER : INTRODUCTION TO HUMAN PHYSIOLOGY AND IMMUNOLOGY TIME : 3 HOURS MAX

MAX. MARKS: 100

#### **SECTION A**

#### ANSWER ALL THE QUESTIONS.

(10x3 = 30)

1. Fill in the blanks

- a) The \_\_\_\_\_\_ is a temporary ovarian endocrine structure involved in ovulation and early pregnancy.
- b) \_\_\_\_\_ is a pigment giving red colour to human blood.
- c) Iodine deficiency leads to \_\_\_\_\_.

2. Choose the correct answer

- a) Which of these is a non antibody substance produced during viral infection? i) Interferon ii) Complement iii) Histamine
- b) 'The millionaire molecule'
  i) IgA
  ii) IgM
  iii) IgD
  c) Oral polio vaccine is an example for \_\_\_\_\_\_ vaccine.
- i) Killed ii) Sub unit iii) Live

## 3. True or false

- a) Muscle contraction occurs when actin and myosin slide over one another.
- b) Most carbon dioxide is transported as bicarbonate.
- . c) Macrophages are phagocytic cells.
- 4. Match the following

a) Allergy	-	i) Aldosterone
b) Adrenal cortex	-	ii) Acetylcholine
c) Neurotransmitter	-	iii) Histamine

5. Define

c) Tropic hormone

- 6. Distinguish between
  - a) Angiogram and Angioplasty.
  - b) Endocrine and Exocrine.

c) Active acquired immunity and Passive acquired immunity.

7. Expand the following abbreviations		
b) HLA	c) TT	
b) Dialysis machine	c) Ureteroscopy	
b) Beta cells of pancreas	c) Dendritic cells	
	b) HLA b) Dialysis machine	

#### **SECTION B**

## ANSWER ANY FIVE QUESTIONS

11. Describe a neuron.

- 12. Explain the waves of an Electro Cardio Gram.
- 13. Write a brief note on ageing.
- 14. Differentiate humoral and cell mediated immunity.
- 15. Give the vaccination schedule for India.
- 16. Write a note on kidney failure and dialysis.
- 17. Describe the structure of IgG.

# **SECTION C**

## ANSWER ANY TWO QUESTIONS

- 18. Give a detailed account of the process of digestion in man.
- 19. Discuss the structure and function of pituitary gland.
- 20. Write an essay on lymphoid organs.
- 21. Explain the types of Antigen- Antibody reactions.

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(2x20 = 40)

(5x6=30)