March 15

QP Code: 13461

(3 Hours)

[Total Marks:70

N.B. :	(2) Fi	ll Question are compulsory. gures to the right indicate furance a neat labelled diagram v	
1. (a)	(i) (collagen in connective tissue.
	(iii) I	Vhat is osmosis? What happe Describe in brief functions of What is blood transfusion read	
	(v) V	What are tendons? Give it's retate the functions of lympha	
(b)	Fill in the (i)	ne blanks is composed of tw	
7 2		·	med elements of blood developes is called
,	(i) E (ii) D (iii) D	any two of the following:—xplain the process of haemogrescribe the life cycle of RBC efine Hemostasis and explain the palrs (any one)	
	(i)	Types of anemia	Cause
		(1) Megaloblastic	(a) destruction of bone marrow
		(2) pernicious	(b) deficiency of vitamine B12 & folic acid
		(3) Thalacsemia	(c) deficient synthesis of Hamoglobin (d) excessive loss of RBI
	(ii)	Cells	Functions
		(1) Lymphocytes	(a) phagocytosis
	No. of the second	(2) Eiosinophil	(b) carries 0 ₂
		(3) Monocytes	(c) mediate antigen antibody response (d) combat the effect of histamine in allergic

reaction.

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3. (a	a) Answer any two of the following:—	
	(i) Explain the physiology of skeletal muscle contraction.	
	(ii) Draw a neat labelled diagram of sarcomere.	
	(iii) Write a note on smooth muscle.	
(b) Answer any one of the following:—	
	(i) Differentiate between isotonic and isometric type of contraction.	
	(ii) What are the properties & functions of cardiac muscle.	
4. (a	Answer any one of the following:—	
	(i) Describe the process of formation and flow of lymph.	
	(ii) What are the primary and secondary Lymphatic organs? give the role of	
	spleen in lymphatic system.	
(b)	Write short note on any one:—	
	(i) What are auto-immune diseases? describe the patho physiology of graves	4
	disease.	
	(ii) Explain different types of hypersensitivity reactions.	
(c)	Answer any one of the following:—	3
(-)	(i) Draw a neat labelled diagram of simple cuboidal epithelium? state its location	
	and function.	
	(ii) Discuss adipose tissue as connective tissue.	
	(ii) Discuss adipose tissue as connective tissue.	
5 (a)	Answer any one of the following:—	
J. (4)	(i) Describe different types of vesicle transport.	4
41		
	(ii) Draw a neat labelled diagram of plasma membrane & Enlist the functions of plasma-membrane.	
(h)	Answer any one of the following:—	
(0)		4
	71	
	(ii) Draw a neat labelled diagram cardiac muscle. Explain the role of intercalated disc.	
(0)		3
(0)	Answer any one of the following:—	
	(i) Discuss the process of acute inflammation.	c
	(ii) Describe the process of tissue repair.	
6. (a)	Answer any one of the following:—	8
	(i) Write a note on ABO group system.	
	(ii) Give the Role of B-lymphocytes & T.lympocytes in Immunity.	
	(iii) Define blood & give its composition & functions.	
(b) .	Answer any one of the following:—	3
	(i) Describe the features of chronic inflammation.	
	(ii) Discuss the role of any two:—	
	(a) Macrophages	
	(b) Plasma cells	
	(c) Cytokines	



Course: Anatomy, Physiology and Pathophysiology - I.

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Correction:

Question no. 6 is read as answer the following any two instead of any one

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