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RNLKWC/P.G./CBCS/IVS/PHY/401/22

2022

HUMAN PHYSIOLOGY

[**P.G.**]

(M.Sc. Fourth Semester End Examination-2022) PAPER- PHY401

Full Marks: 40

Time: 02 Hrs

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as

far as practicable

Illustrate the answers wherever necessary

<u>UNIT – 33</u>

YOGA AND STRESS PHYSIOLOGY

A	. A	nswer any two questions from the following:	2x2=4
	1.	What is meant by high altitude acclimatization?	2
	2.	Give examples of two classical anti-oxidants.	2
	3.	Define stress and mention its types.	2
	4.	State the relation of yoga with functions.	1+1
В.	Aı	nswer any two questions from the following:	2x4 = 8
	1.	Write down the adverse effects of ionizing radiation	on on human
		health.	
	2.	What are anti-stressors and pro-stressors?	2+2
1			

2+2

3. What are Meteorites? What is relative humidity?

4.	What are ROS and RNS? Give examples.	2+2
C. A	answer any one questions of the following:	1x8 = 8
1.	a) Discuss the ameliorative role of any one antioxidant	
	b) How do cells respond to stress?	
	c) What is acceleration?	
2.	a) 2.7011) state the role of yoga in childreng mini	unological
	response.	
b)	Give a brief description of nutritional difficulties	of space
	fighters in space.	4+4
	<u>UNIT – 34</u>	
	MODERN TECHNIQUES IN PHYSIOLOG	7 W
A. A	nswer any two questions from the following:	2x2= 4
	What is 'Transcriptomics'?	2.22 - 7
2.		
3.	Write briefly about FISH.	
4.	What is quantam dot?	
B. A	nswer any two questions from the following:	2x4 = 8

1. Briefly discuss the principle and applications of PCR.

nanoparticle.

2. What is allotrope? Give examples of any two types of gold

٠,	write down the principle and applications of	ALM			
	technique.(with proper diagram)				
4.	What is proteomics? Classify proteomics according to str	ategies.			
C. Answer any one questions of the following: $1x8 = 8$					
1.	1. a) Write down the principle of affinity chromatography.				
	b) How DNA can be used as an excellent nanocons	truction			
	material depending on its inherent merits.				
	c) What is scanning tunnelling microscopy (STM)?	2+4+2			
2.	a) How nanotechnology can be applied in tissue-engineering?				
	b) Write the principle of flow-cytometry.				
	c) What is dendrimer?	3+3+2			