Human Physiology [P.G.] [CBCS]

M.Sc. Fourth Semester End Examination-2024 [Regular & Supplementary Paper] PAPER: PHY 402

Full Marks: 40

Time: 02 Hr

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.

[Use separate answer script for each unit]

Unit - 35

[Research Methodologies in Applied Physiology] Marks 20

- 1. Answer any two questions from the following: 2x2=4
- a. Write any two important criteria of a "good research".
- b. Briefly discuss two sampling methods in research.
- c. Write ther significance of ICMR code of human ethics in research'
- d. Write two important differences between research report and research article.

b. How Hand-Arm-vibration syndrome occurs?

2x4 = 8

2.	Answer any two questions from the following: $2x4=8$
a.	What is plagiarism? What are the ways by which a researcher
	can avoid plagiarism? Name a plagiarism-detection software
	1+2+1
b.	Differentiate between basic and applied research with example
	4
c.	Explain the inductive and deductive approach of research with
	example. 2+2
d.	How research methods differ from research methodologies?
	Why is impact factor (IF) of a journal important?
3.	Answer any one question from the following: 1x8= 8
a.	i) What are the five ethical principles adopted by CPCSEA for
	use of animals in scientific experiments?
	ii) What do you mean by citation index? Give example. 5+3
b.	i) What are the main objectives of conducting a systematic
	literature review (SLR)? What is IST?
	ii) Discuss the advantages and disadvantages of sampling in a
	research. $(3+1)+(2+2)$
	<u>Unit – 36</u>
	[Industrial and Working Environmental physiology]
	Marks 20
1.	Answer any two questions from the following: $2x2=4$

a. How non-ionizing radiations affect human health?

What is MPC of a substance?	
What is meant by occupational stress?	
Answer any two questions from the following: 2x4	1 = 8
What are ergonomic improvements? What are the t	hree
strategies of ergonomic improvements?	1+3
What are the ergonomical principle during sitting positio	n at
work station?	4
What are the strategies taken by the employer for an old	age
worker?	4
What are aesthetics? How it may be implemented in ergono	mic
design?	1+3
Answer any one question from the following: 1x8	8=8
What are the steps initiated by an employer upon submission	n of
a work-station complaint?	8
Mention three areas that contribute satisfaction at work pl	lace.
What are the methods of ergonomic job hazard analysis?	3+5
	Answer any two questions from the following: What are ergonomic improvements? What are the testrategies of ergonomical principle during sitting position work station? What are the strategies taken by the employer for an old worker? What are aesthetics? How it may be implemented in ergonomesign? Answer any one question from the following: What are the steps initiated by an employer upon submissional work-station complaint? Mention three areas that contribute satisfaction at work plants.