#### 2022

## **HUMAN PHYSIOLOGY**

[P.G.]

# (M.Sc. Fourth Semester End Examination-2022) PAPER-PHY402

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 - 35</u>

## (Research Methodology in applied physiology)

1.	Answer any two questions from the following: 23	<b>c</b> 2= 4
a)	What are meant by quasi-experiments?	2
b)	Write down two sampling methods in research.	2
c)	What is meant by plagiarism?	2
d)	What is hypothesis? How does it differ from theory?	1+1
2.	Answer any two questions from the following: 2x	4 = 8
a)	What causes sampling error? Is there any chance that	your
	sampling error could be zero?	3+1
b)	What is research ethics? Mention the role of ICMR in it.	2+2

c)	What are the properties of a good research?	4
d)	Write down the style and steps in drafting a research report.	4
3.	Answer any one questions of the following: 1x8	= 8
a)	i) What are the various steps of a research process?	
	ii) Schematically explain the process of sampling design.	1+4
b)	i) What are the five main ethical principles adopted by CPCS	BEA
	for use of animal in scientific experiments?	
	ii) What are the significance of impact factor of a journal?	
	2	5+3
	<u>UNIT – 36</u>	
	(Industrial and working environmental Physiology)	
1.	Answer any two questions from the following: 2x2	= 4
1. a)	· · · · · · · · · · · · · · · · · · ·	= <b>4</b> 2
	What is the significance of safety in industry?	2
a)	What is the significance of safety in industry?  Explain with an example, how does seat designing af	2
a)	What is the significance of safety in industry?  Explain with an example, how does seat designing af performance of an individual?	2 fect [+1
a) b)	What is the significance of safety in industry?  Explain with an example, how does seat designing af performance of an individual?	2 fect [+1
a) b)	What is the significance of safety in industry?  Explain with an example, how does seat designing af performance of an individual?  What should be the major designing aspects for a class – E PPE head?	2 fect +1 for 2
<ul><li>a)</li><li>b)</li><li>c)</li></ul>	What is the significance of safety in industry?  Explain with an example, how does seat designing af performance of an individual?  What should be the major designing aspects for a class – E PPE head?	2 fect +1 for 2
<ul><li>a)</li><li>b)</li><li>c)</li></ul>	What is the significance of safety in industry?  Explain with an example, how does seat designing af performance of an individual?  What should be the major designing aspects for a class – E PPE head?  State the age related factors of human being that inhibit work	2 Feet +1 for 2 king 2
<ul><li>a)</li><li>b)</li><li>c)</li><li>d)</li></ul>	What is the significance of safety in industry?  Explain with an example, how does seat designing af performance of an individual?  What should be the major designing aspects for a class – E PPE head?  State the age related factors of human being that inhibit work condition.	2 Feet +1 for 2 king 2

- b) Explain with example how environmental factors affect performance of an individual?
- c) Write short note on importance of shift work.
- d) Mention the various types of fire with the remedy to safeguard against them.

## 3. Answer any one questions of the following: 1x8 = 8

- a) i) Write a brief note on size and layout as a component of physical environment.
  - ii) Explain how hypothalamus helps in the process of heat gaining 4+4
- b) Describe the design of instrumental display of any health care organization. Why inspections of instruments are required? 4+4

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