Sree Sankaracharya University of Sanskrit, Kalady

Ph.D Entrance Examination

Physical Education **SU 12211**

Time : 3 hours Maximum Marks : 70

Section - I

Answer any 8 out of the following (Marks 3)

A

1. Summarize the differences between qualitative and quantitative research methods in physical education.
2. Define experimental research in the context of physical education.
3. List the different types of sampling methods commonly used in physical education research.
4. Describe how ethical considerations can impact research design in physical education studies.
5. Justify the purpose of a literature review in physical education research?
6. Explain the importance of a control group in experimental research within physical education.

B

7. Why is random sampling important in ensuring the validity of a physical education research study?
8. List the basic components of a research proposal in physical education?

Total Marks (8x3=24)

Section – II

Answer any 4 out of the following (Marks 5)

A

1. Analyze the variables that may affect the outcome of a study comparing different physical training methods.
2. Compare the strengths and weaknesses of cross-sectional and longitudinal research designs in physical education studies.
3. Analyze the potential confounding variables that might influence the results of a study on the impact of diet on athletic performance.
4. Analyze the differences between correlational and experimental research designs with examples.

B

5. Design a survey to assess the impact of daily physical activity on student academic

performance?

6. Develop a step-by-step procedure to collect data on the flexibility of athletes using a goniometer.
7. Implement an observational study to assess student engagement during physical education classes.
8. Demonstrate how to formulate a hypothesis for a research project on the impact of resistance training on bone density among middle aged women

Total Marks (5x4=20)

Section – III

Answer any 2 out of the following (Marks 13)

A

1. Evaluate the significance of peer review in improving the quality of research in physical education.
2. Formulate a research plan that integrates both quantitative (e.g., fitness measurements) and qualitative (e.g., student interviews) methods to assess the effectiveness of a physical education intervention aimed at increasing physical activity in middle schools.

B

3. Create a research tool (e.g., questionnaire or fitness test) to assess the physical activity levels of high school students.
4. Design a research proposal to study the effects of a 12-week yoga program on flexibility and stress levels in high school athletes.

Total Marks (2x13=26)