

National University of Ireland, Galway  
Ollscoil na hEireann, Gaillimh

Summer Examination 2001

**Certificate/Diploma in Health Promotion  
St. Angela's College, Sligo.**

Paper 1

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Dr. Margaret Barry  
Ms. Jane Sixsmith

Time allowed for each section is 45 minutes

Answer **one** question in each section  
Use a separate answer book for each section

**Section A: Health Psychology**

- Q. 1. Health behaviour may not always be guided by cognitive variables in the way envisioned by Social Cognitive Models. Discuss.  
(Dr. M Barry)
- Q. 2. Critically consider current evidence concerning the impact of social support on health status.  
(Dr. M Barry)

**Section B: Health Information Statistics**

- Q.3. Samples of female employees in two different environments were tested for stress levels on a scale from 0-150, where 0 means no stress at all. The first group comprised factory shop floor operatives ( $n = 50$ ) the mean stress level was 120 and the sum of squares was 5.51. In the second group, all the women were clerical staff ( $n=36$ ) the mean stress level was 124 and the sum of squares was 5.18.
- Test the hypothesis that the groups differed significantly in relation to stress.
  - Offer an explanation for these findings.
  - If you were to repeat the study, what improvements would you suggest ?
- (Ms. S. Friel/Dr. S. Nic Gabhainn)
- Q. 4. Write short notes on FOUR of the following:
- When would you use a median rather than a mean?
  - What is the usefulness of Z scores?
  - Describe the difference between parametric and non-parametric data analyses.
  - What influences the correlation co-efficient ( $r$ )?
  - What are the assumptions underlying Chi Square and what can be done if they are violated?

(Ms. S. Friel/Dr. S. Nic Gabhainn)

**Section C: Epidemiology**

- Q. 5 Identify and summarise the five criteria of causality. Illustrate with a practical example how these might be employed in assessing epidemiological data.  
(Prof. C Kelleher)
- Q. 6 Epidemiological studies take particular account of the inter-relationship between time, person and place. Discuss, giving suitable examples from ecological and observational study designs.  
(Prof. C Kelleher)

**Section D - Computing**

- Q.7 Statistical analysis of data can be a complex process. Discuss appropriate software tools, commenting on the different types of analysis possible and how you would perform them using the computer.  
(Ms. S. Friel)
- Q.8 Describe in detail the difference between Operating Systems and Computer Packages. Give an example of each and discuss how they work and what they do.  
(Ms. S. Friel)