



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER B.Sc. R.T./ BOPT / B.Sc. N.M.T. DEGREE EXAMINATION - MAY/JUNE 2018
SUBJECT : BIOSTATISTICS/ RESEARCH METHODOLOGY & BIOSTATISTICS/ BIOSTATISTICS &
RESEARCH METHODOLOGY
(STAT 402 - 2016 SCHEME)
Saturday, June 02, 2018 (14.00 - 16.00)

Marks: 50

Duration: 120 mins.

1) The daily numbers of animals treated at a certain veterinarian clinic over a 20-day period are as follows:

22 17 19 31 28 29 21 33 36 24 15 28 25 28 22 27 33 19 25 28

Calculate the values of:

- | | | |
|-----|-----------------------------|-----|
| 1A) | Sample mean | (2) |
| 1B) | Coefficient of variation | (8) |
| 1C) | 75 th percentile | (3) |

2) Briefly explain the following with examples:

- | | | |
|-----|--------------------------------|-----|
| 2A) | Interval scale and ratio scale | (4) |
| 2B) | Snowball sampling | (4) |

Answer all the questions.

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|----|---|-----|
| 3) | Explain the structure of a research protocol. | (6) |
| 4) | With the help of an example explain dependent and independent variables used in simple linear regression. Give the relationship between correlation coefficient and coefficient of determination in simple linear regression. | (6) |
| 5) | What is the role of Statistics in clinical medicine? | (5) |
| 6) | Describe case series and case report study designs. | (6) |

7) Define the following:

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|-----|-------------------------|-----|
| 7A) | Period prevalence rate | (2) |
| 7B) | Neonatal mortality rate | (2) |
| 7C) | Crude birth rate | (2) |

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**FOURTH SEMESTER B.Sc. C.V.T./ B.Sc. R.T./ B.Sc. M.I.T./ B.Sc. RRT&DT / BOPT / B.O.T. / B.Sc. E.S.S./
B.Sc. H.I.M. DEGREE EXAMINATION - MAY/JUNE 2018
SUBJECT : GENERAL PSYCHOLOGY (PSYC 202)
(2016 SCHEME)
Thursday, May 31, 2018 (14.00 - 16.00)**

Answer ALL questions.

Marks: 50

Duration: 120 mins.

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| 1) | Define Intelligence. Explain any two theories of intelligence. | (10) |
| 2) | Discuss the various factors that influence attention. | (10) |
| 3A) | Maslow's hierarchy of needs | (5) |
| 3B) | Schools of Psychology | (5) |
| 3C) | Motor development | (5) |
| 3D) | Types of Conflict | (5) |
| 4A) | Shaping | (2) |
| 4B) | Introspection | (2) |
| 4C) | Algorithm | (2) |
| 4D) | IQ | (2) |
| 4E) | Rehearsal | (2) |

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