| | MANIPAL UNIVERSITY | |
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| THIRD YEAR I OURTH YEAR B.O.T | B.Sc. C.V.T./ <mark>B.Sc. M.R.T/</mark> B.Sc. R.T./F C./B.P.T. DEGREE EXAMINATION | B.Sc. M.L.T./ - DECEMBER 2016 |
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| METHODOLOGY & | TISTICS & RESEARCH METHODOLO STATISTICS/BIOSTATISTICS/BASIC B LOGY/RESEARCH METHODOLOGY A | SIOSTATISTICS & |
| METHODOLOGY & | STATISTICS/BIOSTATISTICS/BASIC B | SIOSTATISTICS & |

40

36

42

39

22

39

42

40

Form a frequency table along with relative frequencies for the ages of 48 patients given

29

25

32

43

Compute the range, 85th percentile, first and third quartiles for the data on duration in days of

The duration of time for the first exposure to HIV infection to AIDS diagnosis is called the

incubation period. The incubation periods of a random sample of 10 HIV infected individuals

7.5

If the number 6.5 above were changed to 9.5, what would happen to the mean and median?

12.0

c)

Calculate mean, median and standard deviation of incubation period.

State whether each would increase, decrease or remain the same.

Classify the following into different scales of measurement:

With the help of scatter diagram explain correlation.

Gender

11.5

Temperature (°F)

36

34

47

43

40

36

36

54

(5 marks)

(5 marks)

(10 marks)

(10 marks)

(6 marks)

(4 marks)

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Marital status

d)

Explain the steps in a research process.

47

17

43

39

chicken pox disease in 10 patients.

7.5 11.0 10.5 10.0 6.5 13.5

b)

below. (Class intervals: 0 - 15, 15 - 30, 30 - 45, so on)

31

50

30

57

14 17 17 13 15 11 10 14

10

30

07

37

64

38

62

24

Time: 10:00-13:00 Hrs.

39

33

65

27

15

30

76

15

47

53

46

39

32

is given below (in yrs):

Ø

1.

2.

3.

4.

5.

6.

a) Age