

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086
(Effective from the academic year 2020 – 2021)
DEPARTMENT OF SOCIAL WORK
HUMAN RESOURCE MANAGEMENT

END SEMESTER EXAMINATION
MAY 2021

CODE: 20HR/PC/RS24
COURSE: CORE
PAPER: RESEARCH AND STATISTICS

Max Marks -50
Time –1 ½ Hours

SECTION A

Answer ALL. Answer should not exceed 50 words

(5X2=10 marks)

1. Define descriptive research.
2. What is Chi-Square Test?
3. What is Standard Error?
4. What is non sampling error?
5. List two applications of SPSS.

SECTION B

Answer any TWO. Answer should not exceed 600 words

(2X10=20 marks)

6. What is Sampling Distribution? Explain Null Hypothesis, Type I and Type II Errors.
7. Explain the test of Sound Measurement.
8. Describe the layout of research report.

SECTION C

Answer any ONE. Answer should not exceed 1200 words

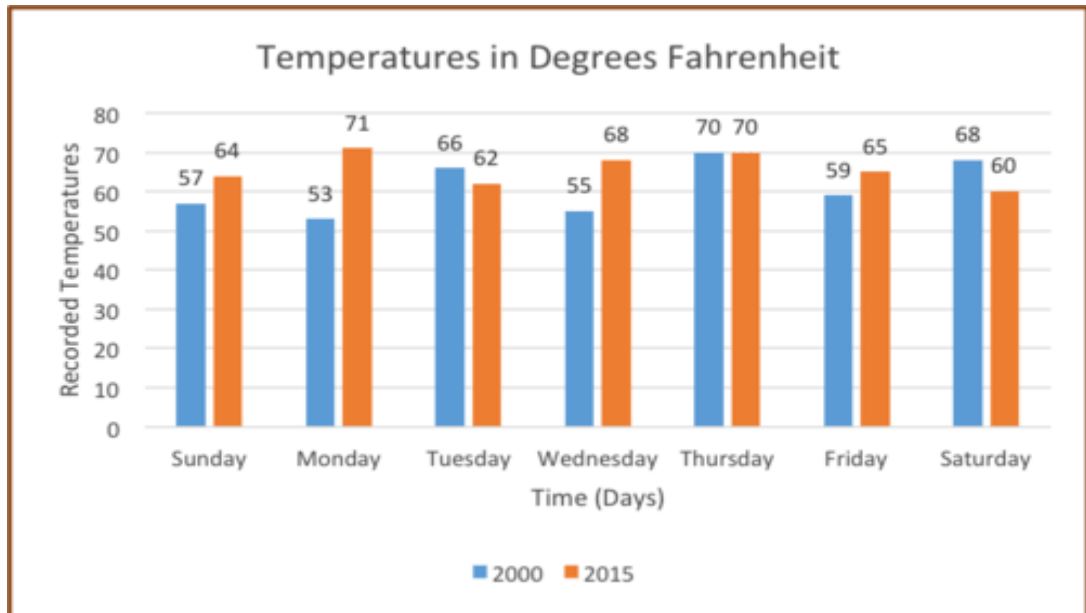
(1X20=20 marks)

9) i. Table showing the relationship between training sessions conducted and type of training undergone. Indicate the type of relationship (Positive or negative) by using Karl Pearson's correlation method. (10 Marks)

Let x be the training session conducted and y be the type of training undergone.

X	50	10	8	17	0
Y	24	20	9	20	12

9) ii. The bar chart below shows the temperature from Monday to Sunday in the year 2000 and 2015. Summarize the information by selecting and reporting the main features, and make comparisons where relevant. (10 Marks)



10) i. 256 visual artists were surveyed to find out their zodiac sign. The results were: Aries (29), Taurus (24), Gemini (22), Cancer (19), Leo (21), Virgo (18), Libra (19), Scorpio (20), Sagittarius (23), Capricorn (18), Aquarius (20), and Pisces (23). Test the hypothesis by using chi square test, that zodiac signs are evenly distributed across visual artists. (10 Marks)
(Level of confidence=95%, Degree of Freedom=20, Table Value=31.410)

10) ii. Below is a bar graph representing the average monthly rainfall in the capital city for the first six months of the year 2014. Summarize the information (10 Marks)

