



Mavin

Avinashilingam Institute for Home Science and Higher Education for Women

(Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD)
Re-accredited with 'A++' Grade by NAAC. Recognised by UGC Under Section 12B
Coimbatore - 641 043, Tamil Nadu, India

**Continuous Internal Assessment Test II- November 2022
SEMESTER- I**

Class : I M.Ed

Max. Marks: 60

Time: 2 Hrs

21MEDCO3- Introduction to Educational Research and Statistics

Course Outcomes

- CO1 Independently search for, integrate and critically assess research information within the field of education.
CO2 Design different data collection methods and conduct an in depth interview, a focus group, qualitative case study and a mixed method study.
CO3 Construct instruments for the measurement of different psychological, sociological, technological and other Educational factors.
CO4 Enter, analyze and interpret the results of the data using SPSS and Microsoft Excel
CO5 Apply basic concepts in Statistics to educational research.

PART – A

Choose the correct answer

6 x 1 = 6

1. Which techniques are most used in Educational Research? CO2 K2
a. Questionnaire b. Interview
c. Observation d. Sociometry
2. An investigator wants to conduct a study to ascertain the progress of implementation of RTE Act - 2009. Which of the following research tools would be most suitable for this purpose? CO3 K4
a. Rating Scale b. Questionnaire
c. Observation d. Sociometry CO5 K3
3. Normal distribution is symmetric about CO5 K3
a. standard variation b. mean
c. covariance d. variance
4. Graphical representations are used for _____ CO3 K3
a. compliance of data b. decoration
c. better mental appeal d. analysing the data
5. The best measure of central tendency is _____. CO5 K2
a. arithmetic mean. b. geometric mean. c. harmonic mean. d. mode
6. The sum of absolute deviations about median is _____. CO5 K4
a. the least
b. the greatest
c. zero
d. equal

PART – B

Answer ALL questions

3 x 6 = 18

Each answer should not exceed 400 words or two pages

7. a. Write on sampling errors and ways to reduce them CO3 K3
(OR)
7. b. Compare the various types of validity with an example CO3 K5
8. a. Elucidate the four data types in detail with examples CO5 K5
(OR)
8. b. Describe Graphical representation of data with examples CO5 K3
9. a. Compute median for the following data: CO5 K6
Scores: 20-29 30-39 40-49 50-59 60-69 70-79 80-89
No. of Students: 4 6 8 12 9 7 4
(OR)
9. b. Explain Skewness and Kurtosis. CO5 K4

PART – C

Answer ALL questions

3 x 12 = 36

Answer should not exceed 800 words or four pages

10. a. Describe Non-Probability Sampling and explain any 2 in detail (OR) CO2 K3
10. b. Explain various Tools and techniques used in Research and write any 3 in detail. CO3 K5
11. a. Pen on Normal Probability Curve and their properties in detail (OR) CO5 K4
11. b. Scores of an exam normal distribution- with mean of 65 and standard deviation is 9. Find the Percentage of the following scores CO5 K6
- i. Less than 54
- ii. At least 80
- iii. Between 70 and 86
12. a. Elucidate the measures of central tendency with their formulae (OR) CO5 K3
12. b. Compare on various Measures of variability with an example CO5 K5

Areas of a standard normal distribution

z	0	0.01	02	03	04	05	06	07	08	09
0	.0000	.0040	.0080	.0120	.0160	.0199	.0239	.0279	.0319	.0359
1	.0398	.0438	.0478	.0517	.0557	.0596	.0636	.0675	.0714	.0753
2	.0793	.0832	.0871	.0910	.0948	.0987	.1026	.1064	.1103	.1141
3	.1179	.1217	.1255	.1293	.1331	.1368	.1406	.1443	.1480	.1517
4	.1554	.1591	.1628	.1664	.1700	.1736	.1772	.1808	.1844	.1879
5	.1915	.1950	.1985	.2019	.2054	.2088	.2123	.2157	.2190	.2224
6	.2257	.2291	.2324	.2357	.2389	.2422	.2454	.2486	.2517	.2549
7	.2580	.2611	.2642	.2673	.2703	.2734	.2764	.2794	.2823	.2852
8	.2881	.2910	.2939	.2967	.2995	.3023	.3051	.3078	.3106	.3133
9	.3159	.3186	.3212	.3238	.3264	.3289	.3315	.3340	.3365	.3389
1.0	.3413	.3438	.3461	.3485	.3508	.3531	.3554	.3577	.3599	.3621
1.1	.3643	.3665	.3686	.3708	.3729	.3749	.3770	.3790	.3810	.3830
1.2	.3849	.3869	.3888	.3907	.3925	.3944	.3962	.3980	.3997	.4015
1.3	.4032	.4049	.4066	.4082	.4099	.4115	.4131	.4147	.4162	.4177
1.4	.4192	.4207	.4222	.4236	.4251	.4265	.4279	.4292	.4306	.4319
1.5	.4332	.4345	.4357	.4370	.4382	.4394	.4406	.4418	.4429	.4441
1.6	.4452	.4463	.4474	.4484	.4495	.4505	.4515	.4525	.4535	.4545
1.7	.4554	.4564	.4573	.4582	.4591	.4599	.4608	.4616	.4625	.4633
1.8	.4641	.4649	.4656	.4664	.4671	.4678	.4686	.4693	.4699	.4706
1.9	.4713	.4719	.4726	.4732	.4738	.4744	.4750	.4756	.4761	.4767
2.0	.4772	.4778	.4783	.4788	.4793	.4798	.4803	.4808	.4812	.4817
2.1	.4821	.4826	.4830	.4834	.4838	.4842	.4846	.4850	.4854	.4857
2.2	.4861	.4864	.4868	.4871	.4875	.4878	.4881	.4884	.4887	.4890
2.3	.4893	.4896	.4898	.4901	.4904	.4906	.4909	.4911	.4913	.4916
2.4	.4918	.4920	.4922	.4925	.4927	.4929	.4931	.4932	.4934	.4936
2.5	.4938	.4940	.4941	.4943	.4945	.4946	.4948	.4949	.4951	.4952
2.6	.4953	.4955	.4956	.4957	.4959	.4960	.4961	.4962	.4963	.4964
2.7	.4965	.4966	.4967	.4968	.4969	.4970	.4971	.4972	.4973	.4974
2.8	.4974	.4975	.4976	.4977	.4977	.4978	.4979	.4979	.4980	.4981
2.9	.4981	.4982	.4982	.4983	.4984	.4984	.4985	.4985	.4986	.4986
3.0	.4987	.4987	.4987	.4988	.4988	.4989	.4989	.4989	.4990	.4990

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