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Reg. No.....

Name.....

M.Ed. (C.B.C.S.S.) DEGREE EXAMINATION, JANUARY 2012

First Semester

Common Course

903—METHODS OF EDUCATIONAL RESEARCH AND STATISTICS

(Regular)

Time : Three Hours

Maximum Weight : 32

Part A

*Answer any two questions.
Each question carries a weight of 4.*

1. Define Research Process and explain various processes involved in research.
2. Explain the hypothesis and procedure for testing of hypothesis of educational research. Illustrate with examples.
3. What are the various methods of collection of primary data ?
4. "Report writing is more an art that hinges upon practice and experience." Discuss.

(2 × 4 = 8 weight)

Part B

*Answer any six questions.
Each question carries a weight of 2.*

5. The following data relate to the age of a group of workers. Calculate arithmetic mean and standard deviation :—

Age	20—25	25—30	30—35	35—40	40—45	45—50	50—55
No. of workers	170	110	80	45	40	30	25

6. What are the factors to be considered in the selection of an educational research problem ?
7. What are the sources regarding related literature ?
8. What are the techniques involved in defining a problem ?
9. Explain the importance of normal distribution.
10. What are the motives of research ?
11. The height of 10 adult male selected at random from a given locality had a mean of 158 cm. and variance 39.0625 cm. Test at 5 % significance level the hypothesis that the adult males of the given locality are on the average less than 162.5 cm. tall. Given for 9 degrees of freedom $p(t > 1.83) = 0.05$.
12. Explain scattered diagram.

(6 × 2 = 12 weight)

Turn over

Part C

*Answer any six questions.
Each question carries a weight of 1.*

13. Explain the use of internet in related literature collection.
14. Differentiate descriptive and analytical research.
15. What is research design ?
16. What is the necessity of defining an educational research problem ?
17. What are unstructured observations ?
18. Define Type I error.
19. What is Chi-square test ?
20. What are the merits of arithmetic average ?

(6 × 1 = 6 weight)

Part D

*Answer all questions.
Each question carries ½ weight.*

21. What is applied research ?
22. Define random sampling.
23. What is null hypothesis ?
24. What is median ?
25. What are multiple regressions ?
26. Define paired *t* test.
27. What is moment ?
28. What do you mean by degrees of freedom ?
29. What is one tailed test ?
30. Expand ANOVA.
31. Define range.
32. What is bibliography ?

(12 × ½ = 6 weight)