

RVE-001

PHDVET

Term-End Examination

June, 2014

**RVE-001: RESEARCH METHODOLOGY AND STATISTICAL METHODS IN
VOCATIONAL EDUCATION AND TRAINING**

Time : 3 hours

Maximum Marks : 100

Note: Answer any 5 Questions. Each Question Carries 20 Marks

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| Q.1 | Explain the following in not exceeding 250 words each:
(a) Historical research
(b) Design method | 10 + 10 |
| Q.2 | Differentiate between data and information. Discuss various sources of data alongwith their merits and demerits. | 5+15 |
| Q.3 | (a) What do you understand by the term stratified random sampling. Explain the circumstances of its applicability with suitable example.
(b) Under what circumstances would you recommend: (i) a probability sample, (ii) a non-probability sample | 5+5 |
| Q.4 | Explain the following terms with suitable examples:
(i) Nominal scale
(ii) Ordinal scale
(iii) Interval scale
(iv) Ratio scale | 5+5+5+5 |
| Q.5 | Draw a box plot for the following data set:
77,79,80,86,87,94,99
Show the univariate statistics calculations used for constructing box plot separately. | 10+10 |
| Q.6 | (a) What do you understand by Type I error and Type II error in testing hypothesis? Explain with suitable example.
(b) Explain the terms (i) one tail test, (ii) two tail test with suitable example. | 5+5
5+5 |
| Q.7 | Write a short note on the following:
(a) Factor analysis, (b) Discriminant analysis | 10+10 |
| Q.8 | Write an essay not exceeding 500 words on National Skill Qualification Framework (NSQF) of Government of India. | 20 |