

**PARUL UNIVERSITY**  
**FACULTY OF ARTS**  
**M.A., Winter 2018 – 19 Examination**

**Semester: 3**  
**Subject Code: 15203203**  
**Subject Name: Psychometrics and Practicals**

**Date: 01/12/2018**  
**Time: 10:30am to 1:00pm**  
**Total Marks: 60**

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**Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

**Q.1 Do as directed.****(08)****A. Multiple choice type questions. (Each of 0.5 mark)****1.** Which of the following is correct according to APA?

- (a) Author's name. title of book. year
- (b) Author's initials, Title of Book, year
- (c) Author's last name, Author's initials. (Year). Title of Book
- (d) Title of Book. (Year).

**2.** Which is the last section in an article?

- (a) abstract
- (b) introduction
- (c) discussion
- (d) references

**3.** In which of the following sections is the statement of purpose included?

- (a) Results
- (b) Discussion
- (c) Introduction
- (d) Method

**4.** Which of the following does not affect the robustness of a quantitative research?

- (a) method and philosophical understandings
- (b) logical consistency
- (c) ethical considerations
- (d) literature review

**5.** \_\_\_\_\_ is the midpoint of a distribution

- (a) median
- (b) mode
- (c) mean
- (d) none of the above

**6.** If the new test is administered at about the same time that data are collected on the criterion variable, then the term \_\_\_\_\_ is used.

- (a) predictive validity
- (b) concurrent validity
- (c) content validity
- (d) constructive validity

**7.** Where in a journal article are statistical plans discussed?

- (a) Introduction
- (b) Results
- (c) Discussion
- (d) Method

**8.** Which statistical technique is used to correct an inflated type I error problem?

- (a) t-test
- (b) one-way ANOVA
- (c) bonferroni technique
- (d) two-way ANOVA

**9.** Which non-parametric statistic is used when we want to compare two or more independent sample?

- (a) median test
- (b) Mann-Whitney U test
- (c) Friedman two-way analysis of variance of ranks
- (d) Wilcoxon matched-pairs signed-ranks test

**10.** Which measure of central tendency is used when a quick and approximate measure of central tendency is all that is wanted?

- (a) mode
- (b) median
- (c) geometric mean
- (d) mean

11. How long should an annotation be?  
 (a) 200-300 (b) 150-300  
 (c) upto 100 (d) 100-200
12. Spearman's rho is used to analyze ranked data. True or false?  
 (a) false (b) true
13. Non-parametric statistics are used when we have \_\_\_\_\_ data.  
 (a) equal interval scale (b) ratio scale  
 (c) both (d) neither
14. Falsely rejecting a null hypothesis is called a \_\_\_\_\_  
 (a) Type I error (b) Type II error  
 (c) neither
15. How do you compute the *df* for correlated samples t test?  
 (a) n-1 (b) n-2  
 (c) n+1 (d) n+2
16. Which of the following correlations are used when one is analyzing ranked data?  
 (a) Phi (b) Pearson's r  
 (c) Kendall's tau (d) biserial

**B. Terms/ Short notes (Each of 01 mark) (07)**

1. Name any two alternative ways to title the materials section.
2. Define abstract
3. Name any two measures of central tendency apart from mean, median and mode.
4. Define standard deviation.
5. What is standard error of measurement?
6. What are inferential statistics?
7. What is an annotation?

**Q.2 Answer the following.**

- A. Write a note on the Method section of a journal article. (04)
- B. What are the techniques used to summarize data? (04)
- C. How do you document common knowledge in your writing? (04)

**OR**

- C. What is a review article and what are its functions? (04)

**Q.3 Answer the following.**

- A. Write a note on the relative distribution of mean median and mode. (05)
- B. Which types of review articles exist? (05)
- C. Write a note on theoretical framework of qualitative research (05)

**OR**

- C. Write a note on post-hoc and planned comparisons. (05)

**Q.4 Answer the following.**

- A. Write a note on distributional shape. (06)
- B. Write a note on types of samples. (06)
- C. Write a note on validity. (06)

**OR**

- C. What are the characteristics of qualitative researches? (06)