Seat No.

Set **P**

Ph.D. Course Work Examination March-2021
Hindi (Paper – I)
RESEARCH METHODOLOGY & INFORMATION COMMUNICATION TECHNOLOGY (ICT)
अनुसंधान प्रक्रिया, जानकारी और तकनीकी

Day & Date: Monday, 22-03-2021   Max. Marks: 100
Time: 11.00 AM to 02.00 PM

सूचनाएँ: 1) सभी प्रश्न अनिवार्य है।
       2) दाईं ओर प्रश्न के पूर्णांक हैं।

प्र. 1 अ) अनुसंधान के प्रकारों को स्पष्ट कीजिए।   10
    ब) **किन्ही दो के संक्षिप्त उत्तर लिखिए।**   10
      1) ऐतिहासिक अनुसंधान।
      2) समाजशास्त्रीय अनुसंधान।
      3) प्रयोजनमूलक अनुसंधान।

प्र.2 अ) भाषा के समाजशास्त्रीय अनुसंधान की चर्चा कीजिए।   10
    ब) **किन्ही दो के संक्षिप्त उत्तर लिखिए।**   10
      1) अनुसंधान का महत्व।
      2) भाषा प्रोद्योगिकी अनुसंधान।
      3) अंतर विदयाशाखीय अनुसंधान।

प्र.3 अ) साहित्यिक अनुसंधान के स्वरूप को समझाइए।   10
    ब) **किन्ही दो के संक्षिप्त उत्तर लिखिए।**   10
      1) अनुसंधान और अलोचना।
      2) तुलनात्मक अनुसंधान।
      3) बोली विषयक अनुसंधान।

प्र.4 अ) शोध प्रक्रिया में कम्पूटर (संगणक) की उपयोगिता स्पष्ट करते हुए ई–मेल प्रेषण और प्राप्ति के महत्व की चर्चा कीजिए।   10
    ब) **किन्ही दो के संक्षिप्त उत्तर लिखिए।**   10
      1) सहायक ग्रंथ सूची, कोश।
      2) काल विशेष के अधार पर अनुसंधान।
      3) लेखक विशेष का अनुसंधान।

प्र.5 अ) अनुसंधान में अनुदित साहित्य का महत्व स्पष्ट कीजिए।   10
    ब) **किन्ही दो के संक्षिप्त उत्तर लिखिए।**   10
      1) इंटरनेट।
      2) शोध कार्य विभाजन।
      3) पत्रिकाएँ।

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Ph.D. Course Work Examination March-2021
(Paper – I)
RESEARCH METHODOLOGY AND INFORMATION COMMUNICATION TECHNOLOGY (ICT)

Day & Date: Monday, 22-03-2021   Max. Marks: 100
Time: 11.00 AM to 02.00 PM

Instructions: 1) All questions are compulsory.
                             2) Figures to the right indicate full marks.

Q.1	**a)**	What is the meaning of Research and describe the Nature of Research?	**10**
	b)	**Write short notes. (Any Two)**	**10**
		1) Types of Research	
		2) Characteristics of a Good Hypothesis	
		3) Induction Method	
Q.2	**a)**	What is the meaning of Formulation of Problem and describe the factors helpful for formulation of Research problem?	**10**
	b)	**Write short notes. (Any Two)**	**10**
		1) Importance of Review of Literature in Social Science	
		2) Qualities of Good Research	
		3) Research Design	
Q.3	**a)**	Explain the meaning and Methods of Data Collection.	**10**
	b)	**Write short notes. (Any Two)**	**10**
		1) Field Work	
		2) Data Analysis	
		3) Writing of Report	
Q.4	**a)**	What is Sample Design? Explain its main merits and demerits.	**10**
	b)	**Write short notes. (Any Two)**	**10**
		1) Types of Data	
		2) Testing of Hypothesis	
		3) Importance of Statistics in Social Science	
Q.5	**a)**	What is importance of the Computer Application in Research?	**10**
	b)	**Write short notes. (Any Two)**	**10**
		1) Definition of ICT	
		2) Internet and Website	
		3) Online Publication and Impact factor	

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Set **P**

Ph.D. Course Work Examination March-2021
Journalism & Mass Communication (Paper – I)
RESEARCH METHODOLOGY AND INFORMATION COMMUNICATION TECHNOLOGY (ICT) (New)

Day & Date: Monday, 22-03-2021   Max. Marks: 100
Time: 11.00 AM to 02.00 PM

Instructions: 1) All questions are compulsory.
                        2) Figures to the right indicate full marks.

Q.1	**a)**	What is hypothesis? Why it is important in research? Describe various types of hypothesis giving suitable examples.	**10**
	b)	**Short Answer Questions. (Any Two)**	**10**
		1) What are the qualities of good research?	
		2) What is fundamental research?	
		3) Describe purpose of theory.	
Q.2	**a)**	Trace various types of research. Illustrate.	**10**
	b)	**Short Answer Questions. (Any Two)**	**10**
		1) What is your understanding about term 'Concept'?	
		2) What is importance of objectives in research?	
		3) Why review of literature is necessary.	
Q.3	**a)**	What is data? Describe various methods of data collection.	**10**
	b)	**Short Answer Questions. (Any Two)**	**10**
		1) What is Correlation?	
		2) Write a note on Chi square test.	
		3) How to write research report?	
Q.4	**a)**	What is SPSS? How it is useful in research?	**10**
	b)	**Short Answer Questions. (Any Two)**	**10**
		1) Write in brief about MS PowerPoint.	
		2) What is the use of MS Excel in research?	
		3) Write a note on 'Photoshop'.	
Q.5	**a)**	Trace the evolution and development of internet.	**10**
	b)	**Short Answer Questions. (Any Two)**	**10**
		1) What is an 'Impact Factor'?	
		2) What is LAN and WAN?	
		3) What is difference between ISSN and ISBN?	

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Ph.D. Course Work Examination March-2021
Education (Paper – I)
RESEARCH METHODOLOGY & INFORMATION COMMUNICATION TECHNOLOGY (ICT)

Day & Date: Monday, 22-03-2021   Max. Marks: 100
Time: 11.00 AM to 02.00 PM

Instructions: All questions are compulsory.

Q.1	**a)**	What are the various methods of Educational Research? Explain any one in detail?	**15**
	b)	What is the importance of Educational Research Proposal? Explain with example.	**10**
Q.2	**a)**	What do you mean by qualitative research? What are the steps of writing report of qualitative research? Explain.	**15**
	b)	Explain importance of review of related research and literature in Educational research?	**10**
Q.3	**a)**	What do you know about e-information project? Explain its importance in present situation with example.	**15**
	b)	What is the role of Information Communication Technology (ICT) in Educational Research? Explain.	**10**
Q.4	**a)**	How is the Impact factor of any reputed journal calculated? What is its importance in research publication? Explain with the example of any reputed journal.	**15**
	b)	Explain the concept, International ISSN and ISBN Journals, with suitable examples.	**10**

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Set **P**

Ph.D. Course Work Examination March-2021
Commerce (Paper – I)
RESEARCH METHODOLOGY AND INFORMATION COMMUNICATION TECHNOLOGY (ICT)

Day & Date: Monday, 22-03-2021   Max. Marks: 100
Time: 11.00 AM to 02.00 PM

Instructions: 1) All questions are compulsory.
                          2) Figures to the right indicate full marks.

Q.1 **a)** What is the scientific method of research? Discuss the characteristics of scientific method.   **10**

   b) **Write short answer any two of the following.**   **10**
   1) Explain the terms null hypothesis and alternate hypothesis.
   2) Write a note on plagiarism.
   3) Explain advantages and disadvantages of secondary data collection method.

Q.2 **a)** Explain the points to be considered in the process and sources of identifying a research problem.   **10**

   b) **Write short notes any two of the following.**   **10**
   1) Primary data
   2) Characteristics of good research report
   3) Chi-Square test for goodness of fit

Q.3 **a)** What do you understand by 'Simple Random Sampling'? Discuss the process to select a random sample using 'simple random sampling'.   **10**

   b) **Write short answer any two of the following.**   **10**
   1) In a population under study, there are 2000 women and 8000 men. If we are to select a sample of 250 individuals from this population, how many should be women to make our sample considered strictly representative? Explain appropriate methods of sampling for this example.
   2) Write a note on usefulness of bibliography in a research report.
   3) What are the steps in scientific research process?

Q.4 **a)** Explain the different use of quantitative method in research. Explain merits and demits of measures of central tendency.   **10**

   b) **Write short notes on any two of the following.**   **10**
   1) Word and Graphical Processing
   2) Questionnaire
   3) Difference between correlation and regression

Q.5 **a)** Discuss the role of computer application in Research.   **10**
   b) **Write short answer any two of the following.**   **10**
   1) The theory predicts that the proportion of beans in the four groups A, B, C and D should be 9:3:3:1. In an experiment among 1600 beans, the numbers in the four groups were 882, 313, 287 and 118. Does the experimental result support the theory? Apply χ^2 test at 5% level of significance.
   2) Explain important process of Research Design.
   3) Explain the importance of testing of Hypothesis in scientific method.

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Ph.D. Course Work Examination March-2021
Science (Paper – I)
RESEARCH METHODOLOGY & INFORMATION COMMUNICATION TECHNOLOGY (ICT)

Day & Date: Monday, 22-03-2021   Max. Marks: 100
Time: 11.00 AM to 02.00 PM

Instructions: 1) All questions are compulsory.
2) All questions carry equal marks.

Q.1 **a)** What is Impact factor? Discuss in detail Calculation of Impact factor and immediacy index. **10**

b) **Attempt any two** **10**
1) Write on Patent filling.
2) Write note on Preparation of Thesis
3) Explain briefly about e-Data base.

Q.2 **a)** Discuss in detail about Criteria of good research, types of research and purpose & process of literature review. **10**

b) **Attempt any two** **10**
1) What is ISBN? Write note on it.
2) What is h-index? Write on determination of h-Index.
3) Write on dynamic theory of construction.

Q.3 **a)** Write in detail process of research with reference to data collection, record keeping and result and Discussion. **10**

b) **Attempt any two** **10**
1) Write on presentation of research outcome as a research paper.
2) Write on SCOPUS and Citation Index.
3) What is ISSN? Write on it.

Q.4 **a)** Write in brief statistical techniques for analyzing data. **10**
b) **Attempt any two** **10**
1) Write on framing of questionnaire.
2) Write on applications of computer in research.
3) Write on Scientific explanation and limits of Scientific explanation.

Q.5 **a)** Write in detail block schematic scientific approach with inductive and deductive logic schemes. **10**

b) **Attempt any two** **10**
1) Discuss chi-square test.
2) Write on Search engines available on internet.
3) Write about MS Power Point.