

TANTIA UNIVERSITY, SRI GANGANAGAR

Syllabus Entrance Examination for Ph.D.

Subject- Education

Maximum Marks-100

Part A- 50 (Research Methodology)

Part B- 50 (Subject Wise)

PART-A

Research Methodology and Statistics

- UNIT 1: Meaning of Research
 Aims, nature and scope of research
 Prerequisites of research
- UNIT 2: Research Problem
 Meaning of research problem Sources of research problem Characteristics
 of a good research problem
 Hypothesis: Meaning and types of hypothesis. Research proposal or
 synopsis.
- UNIT 3: Types and Methods of Research
 Classification of Research
 Pure and Applied Research
 Exploring or Formulative Research
 Descriptive Research
 Diagnostic Research/Study
 Evaluation Research/Studies
 Action Research
 Experimental Research
 Historical Research
 Surveys
 Case Study
 Field Studies
- Unit 4: Review of Related Literature
 Purpose of the review. Identification of the related literature. Organizing
 the related literature.
- UNIT 5: Data Collection (Sampling) Sampling and Population Techniques of sampling
 Selection Characteristics of a good sample Types of data.
- UNIT 6: Tools of Data Collection
 Observation, Interview, Questionnaire, Rating scales, Attitude scales,
 Schedules, Characteristics of good research tools.
- UNIT 7: Statistics
 Concept of statistics, relevance in education, parametric and non-
 parametric data; graphical representation of data: histogram, frequency

polygon, ogive and pie chart; Measures of Central Tendency: concept, computation and interpretation; measures of variability: concept, computation and interpretation; normal probability curve: concept, application and interpretation.

Correlation: concept, computation and interpretation- Product Moment, Rank Order, Biserial, Point Biserial, Phi, Contingency, Tetrachoric; significance of mean: concept, computation and interpretation of significance of t-test (correlated and uncorrelated, matched, paired-unpaired, matching- paired); ANOVA (One way) : concept, computation and interpretation, regression and prediction; chi square: concept, computation and interpretation (equal and normal probability).

UNIT 8: Research Report

Format of the research report
Style of writing the report
References and bibliography

Reference books:

1. Best John W. and James Kahn, V., 1989, Research in Education, Sixth Edition, Prentice- Hall of India Pvt.Ltd, New Delhi.
2. Sharma R.A., 1992, Fundamentals of Educational Research, Loyal Book Depot, Meerut, UP, India.
3. Kulbir Singh Sidhu, 1990, Methodology of Research in Education, Sterling Publishers Pvt. Ltd., New Delhi.
4. Lokesh Koul, 1997 Methodology of educational Research, third edition, Vikas Publishing House Pvt. Ltd. , New Delhi.
5. Kothari C.R., 1990, Research Methodology Methods and Techniques, Wiley Eastern Limited, New Delhi.
6. Borg Walter R., Gall Meridith D., 1983, Educational Research an Introduction, Fourth Edition, Longman, New York & London.
7. Nitko Anthony J., 1983, Educational Tests and Measurement an Introduction, Harcourt Brace Jovanovich, Inc., New York.
8. Aggarwal Y.P., 1988, Statistical Methods Sterling Publishers Pvt. Ltd., New Delhi.
9. Garret Hnery E., 1985 Statistics in Psychology and Education, Viakils, Feffer and Simon, Bombay.
10. Guilford, J.P., and Benjamin Fruchter, 1982 Fundamentals of statistics in Psychology and Education, Fifth edition, Mc Graw-Hill Book Company, New York.
11. Gupta S.C. and Kapoor V.K., 1999, Fundamentals of Mathematical Statistics, Sultan Chand & Sons Educational Publishers, New Delhi.
12. Grewal P.S., Methods of Statistics Analysis, Sterling Publishers Pvt. Ltd., New Delhi.
13. Bruce W. Tuckman, Statistics in Psychology and Education.

Part-B (Subject Wise)

Education

1- Philosophical & Sociological Foundations of Education

Relationship of Education and Philosophy

Western Schools of Philosophy:

Idealism, Realism, Naturalism, Pragmatism, with special reference to the concepts of knowledge, reality and values their educational implications for aims, contents and methods of education.

Indian Schools of Philosophy (Sankhya, Vedanta, Geeta, Budhaism, Jainism, Islamic traditions) with special reference to the concept of knowledge, reality and values their educational implications

Contributions of Vivekananda, Tagore, Gandhi, Swami Keshwanand and Aurobindo to educational thinking.

National values as enshrined in the Indian Constitution and national policies of Education, Education for Values.

Relationship of Sociology and Education

Education – as a social sub-system – special characteristics Education and the community with special reference to Indian society Education and Modernization

Education and Culture

Education and Democracy

Education as related to social stratification and social mobility

Education of the socially and economically disadvantaged sections of the society with special reference to scheduled caste and scheduled tribes, rural population, education for gender equity.

f' k{kk d l kekf'td , oa nk' kfud vk/kkj &

शिक्षा तथा दर्शनशास्त्र का संबंध दर्शन

के पश्चिमी संप्रदाय (स्कूल) :

आदर्शवाद, यथार्थवाद, प्रकृतिवाद, प्रयोजनवाद, ज्ञान, यथार्थ तथा मूल्यों के विशेष संदर्भ में, शिक्षा के उद्देश्य, विषयवस्तु तथा शिक्षा पद्धति के लिए उनके शैक्षिक निहितार्थ ।

ज्ञान, यथार्थ तथा मूल्यों के विशेष संदर्भ में भारतीय दर्शन में सांख्य, वेदान्त, गीता, बौद्ध, जैन तथा मुस्लिम संप्रदायों के शैक्षिक निहितार्थ।

विवेकानन्द, टैगोर, गांधी, स्वामी केषवानन्द और अरबिन्दो का शिक्षा विषयक चिन्तन में योगदान।

भारतीय संविधान में निहित राष्ट्रीय मूल्यों का समीक्षात्मक अध्ययन और शिक्षा की राष्ट्रीय नीतियां, मूल्यों के लिए शिक्षा

समाजशास्त्र एवं शिक्षा में सम्बन्ध

शिक्षा – सामाजिक उपव्यवस्था के रूप में – विशिष्ट लक्षण

शिक्षा तथा समुदाय, भारतीय समाज के विशेष संदर्भ में। शिक्षा

तथा आधुनिकीकरण

शिक्षा तथा संस्कृति शिक्षा

तथा लोकतन्त्र

सामाजिक स्तरीकरण तथा सामाजिक गतिशीलता से सम्बद्ध शिक्षा

समाज के सामाजिक और आर्थिक दृष्टि से वंचित वर्गों की शिक्षा, अनुसूचित जातियों तथा

अनुसूचित जनजातियों, ग्रामीण जनता तथा लिंग समानीकरण के लिए शिक्षा के विशेष संदर्भ में।

2- Psychological Foundations of Education

Relationship of Education and Psychological

Process of Growth and Development

- Physical, social, emotional and intellectual
- Development of concept formation, logical reasoning, problem solving and creative thinking; language development
- Individual Differences – determinants; role of heredity and environment implications of individual differences for organizing educational programmes

Intelligence – its theories and measurement

Learning and Motivation

Theories of learning – Thorndike is connectionism; Pavlov's classical and Skinner's operant conditioning; learning by insight; Hull's reinforcement theory and Tolman's theory of Learning; Lewin's Field theory

- Gagne's hierarchy of learning
- Factors influencing learning
- Learning and motivation
- Transfer of learning and its theories

Psychology and education of exceptional children – creative, gifted, backward, learning disabled and mentally retarded

Personality – type and trait theories – measurement of personality

Mental health and hygiene – process of adjustment, conflicts and defence mechanism, mental hygiene and mental health. Sex Education

Guidance

f' k{kk d eukoKkfud vk/kkj &

शिक्षा तथा मनोविज्ञान का संबंध

वृद्धि तथा विकास की प्रक्रिया

- शारीरिक, सामाजिक, भावात्मक और बौद्धिक
- संप्रत्यय-निर्माण, तर्कना शक्ति, समस्या समाधान और सृजनात्मक चिन्तन का विकास,

भाषा का विकास।

– वैयक्तिक विभेद तंत्र – निर्धारक तत्व, आनुवांशिकता तथा परिवेश की भूमिका, शैक्षिक कार्यक्रम आयोजित करने में वैयक्तिक अन्तरों के निहितार्थ

बुद्धि – इसके सिद्धान्त तथा मापन

अधिगम और अभिप्रेरण :

अधिगम के सिद्धान्त – थार्नडाइक का संबंधवाद, पावलाव का क्लासिकी तथा स्किनर का क्रियाप्रसूत अनुबंधन, अन्तर्दृष्टि द्वारा अधिगम, हॉल का प्रबलन सिद्धान्त, टोलमैन का अधिगम सिद्धान्त, लूविन का क्षेत्र सिद्धान्त

- गैने का अधिगम अधिकम
- अधिगम को प्रभावित करने वाले कारक
- अधिगम और अभिप्रेरण
- अधिगम का अन्तरण और इसके सिद्धान्त

असाधारण बच्चों का मनोविज्ञान एवं उनकी शिक्षा – सृजनात्मक, प्रतिभाषाली, पिछड़े,

अधिगम-असमर्थ तथा मन्दितमना सहित का मनोविज्ञान तथा शिक्षा

व्यक्तित्व – प्रकार तथा विशेषक सिद्धान्त – व्यक्तित्व का मापन

मानसिक स्वास्थ्य तथा आरोग्यता – समायोजन की प्रक्रिया, मानसिक द्वन्द्व एवं प्रतिरक्षा

क्रियाविधि, मानसिक आरोग्यता। यौन शिक्षा नेतृत्व

3- Educational Technology

Fundamental of ET, Concept of ET, Classification of E.T., Concept, Meaning, & Characteristics of Technology, Hardware & Software & system approach, teaching technology. Instruction Technology, Behaviour Technology, Instructional Design Role of NCERT & SIERT in the field of Educational Technology.

Concept, role, characteristic and scope of Multi Media & Mass Media, Multimedia-approach to instruction, criteria for selection of media, Radio, TV, Film Tape Recorder, CD/DVD Player, Computer, LCD Projector etc.

Communication and classroom interaction, Communication in Education and its process, models and impact on Learning, Teaching, Environment technique of encoding and decoding, Interaction Analysis technique, Consent organization interaction by FIACS. T-group Training, Micro teaching, simulated teaching, Action Research, Study of Observation, Schedule and Record (OSCAR), Bale's Interaction Process Categories, Verbal Interaction Category System (VICS), Reciprocal Category System.

Concept of Teaching and instruction, training and learning, classification and specification of Instruction Behaviours, Programming Instruction, CAI, Teaching machine and its developments, concept of education innovation, latest research in education technology, Development of Education Technology in India, new innovation in Educational Technology.

'kf{k d rduhdh

शैक्षिक तकनीकी का आधार, शैक्षिक तकनीकी का संप्रत्यय, शैक्षिक तकनीकी का वर्गीकरण, शैक्षिक तकनीकी – संप्रत्यय, अर्थ तथा विशेषताएं, कठोर, मृदुल तथा प्रणाली उपागम, शिक्षण तकनीकी, अनुदेशन तकनीकी, व्यवहार तकनीकी, अनुदेशन प्रारूप, शैक्षिक तकनीकी के क्षेत्र में एनसीईआरटी व एसआईईआरटी की भूमिका।

बहुसंचार एवं जनसंचार का संप्रत्यय, भूमिका, विशेषताएं तथा क्षेत्र, अनुदेशन का बहुसंचार उपागम, संचार के चयन का आधार, रेडियो, टी.वी., फिल्म, टेपरिकार्डर, सीडी/डीवीडी प्लेयर, कम्प्यूटर, एलसीडी प्रोजेक्टर आदि।

सम्प्रेषण तथा कक्षाकक्ष अनुदेशन, शिक्षा में संप्रेषण तथा इसकी प्रक्रिया, प्रतिमान तथा अधिगम पर प्रभाव, शिक्षण, पर्यावरणीय तकनीक, अन्तक्रिया विप्लेषण तकनीक, टी-समूह प्रशिक्षण, सूक्ष्म शिक्षण, अनुकरणीय शिक्षण, क्रियात्मक अनुसंधान, निरीक्षण, अनुसूची और रिकार्ड का अध्ययन, बेल

का अन्तःक्रिया प्रक्रिया वर्ग, मौखिक अन्तःक्रिया वर्ग प्रणाली, दोतरफा वर्ग प्रणाली.

षिक्षण एवं अनुदेशन का संप्रत्यय, प्रषिक्षण एवं अधिगम, अनुदेशन व्यवहार का वर्गीकरण एवं विषेषीकरण, अभिक्रमित अनुदेशन, कम्प्यूटर सहाय अनुदेशन, षिक्षण मषीन और इसका विकास षिक्षा नवाचार का संप्रत्यय, शैक्षिक तकनीकी में नवीनतम अनुसंधान, शैक्षिक तकनीकी का भारत में विकास, शैक्षिक तकनीकी में नवाचार.

