

M.Phil/ Ph.D. Entrance Test Syllabus Education

उपरोक्त परीक्षा में निम्नलिखित विषयों में प्रश्नों की संख्या निम्नानुसार होगी

क्र. विषय व सहायक प्रश्नों की संख्या

1	Educational Research Method & Statistics	50
2	Philosophy of Sociology & Education	25
3	Advanced Educational Psychology	25
		<hr/> Total 100

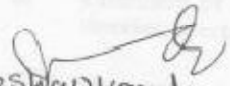
M.Phil/ Ph.D. Entrance Test Syllabus Nursing

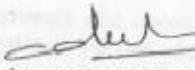
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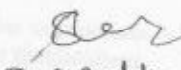
आज दिनांक 7/6/12 को अध्वन परिषद की बैठक सम्पन्न हुई।
जो पी.एच.डी. पाठ्यक्रम हेतु प्रवेश परीक्षा के पी.एच.डी. रेगुलेशन
की बैठक उल्लेखित कार्यक्रमों की अर्थात्, अध्वन अध्वन संस्थान की
बैठक में चयन की अध्यक्षता में निर्णय लिया गया है निम्न
प्रकार का है -


- विशेषतः नर्सिंग सम्बंधित विषयों में एक पाठ्यक्रम तैयार करें
- 1. नर्सिंग इंडिया एवं एडवांस नर्सिंग
- 2. नर्सिंग एप्लिकेशन
- 3. नर्सिंग एडमिनिस्ट्रेशन एवं नर्सिंग मैनेजमेंट,
- 4. ऑब्जर्वेशन एवं गार्डन नर्सिंग
- 5. चारिटी हेल्थ नर्सिंग
- 6. कॉम्युनिटी हेल्थ नर्सिंग
- 7. मेन्टल हेल्थ नर्सिंग एवं सायकोलॉजी
- 8. मेडिकल सर्जिकल नर्सिंग
- 9. नर्सिंग रिसर्च एवं स्टडी रविस
- 10. इंग्लिश नर्सिंग एवं कॉम्प्लीमेंट्री वेबसाई

उपरोक्त विषयों में नर्सिंग से सम्बंधित विषयों
में पाठ्यक्रम तैयार करने हेतु एक दल का अग्र्य किया
जावे। जिससे पाठ्यक्रम तैयार रूप से बनाया जा सके।


Dr. Usha Okande
Principal / Chairmen
Chaitram College of Nsg
Indore


Ms. Chaitram
Principal
CBT CON
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Dr. S. Reddy
Principal
SDPS COL
Indore


Mrs. Acharya
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Chaitram COL
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PhD Program in Nursing , JAVV .

GENERAL OBJECTIVE

The major purpose of this PhD program is to prepare PhD nursing scholars with expertise in selected substantive areas who will contribute to nursing theory and practice through systematic enquiry & will share innovative and effective ways to study nursing care, health promotion, at state, national and international level.

Specific objective:

1. To prepare a competent independent, mature and all round nurse researcher who will pursue an academic or scientific career.
2. To encourage development of creativity, analytical thinking, critical analysis and innovative problem solving.
3. To make significant intellectual contribution to the body of knowledge in their chosen field and provide innovative solution to the day to day problems faced in their professional careers.
4. To develop prospective teacher educators with necessary skills and competencies.
5. To prepare scholars who will evaluate critically the research studies in order to assess the quality and applicability in improving the handling of nursing management problems.

SYLLABUS FOR ENTRANCE

EXAMINATION

D.A.V.V. PhD Program in Nursing

Note: Ten subjects have been included for preparing entrance test for PhD in nursing.
Weightage given to each subject is equal for all i.e. 10 marks for each.

List of reference books is given at the end of each subject.

Subject 1 : NURSING MANAGEMENT and ADMINISTRATION

Topics:

- **Administration-** Philosophy, elements, principles & scope of administration.
- **Management** - Concept of management, Functions of administration, Planning & control, Co-ordination & delegation, Theories & models of management
- **Planning** -
 - Planning Process:- concept, Principles, objectives
 - Programme evaluation & review technique, MBO
- **Organization-** Concept, principles, objectives, organizational theories, Organizing nursing services & patient care.
 - **Disaster management** : Plan, resources, drill.
- **Human resource for health and Nursing** – Philosophy, Personnel management
 - **Norms:** staff inspection unit (SIU), Bajaj committee, high power committee, Indian nursing council.
 - Staffing, Recruitment, Retention, Personnel policies, Termination
- **Directing-**
 - a) **Motivation** - Motivational theories, Intrinsic, extrinsic, creating motivating climate

- **b) Communication-** communication process ,types ,strategies interpersonal communication , channels , barriers , Problems , public relations
- **c) delegation of authority and responsibility**
- **d) managing conflict**
- **e) Collective bargaining** – Health care labour laws, unions, professional associations
- **Material management-**
 - Planning & procurement procedures
 - Concepts ABC analysis
 - VED analysis , inventory control , condemnation.
- **Quality assurance-** continuous quality improvement
Standards, Models, nursing audit
- **Performance appraisal-** tools, confidential reports, formats, management, interviews.
- **Discipline-** constructive vs destructive discipline, disciplinary proceeding enquiries.
- **Self evaluation-**peer evaluation, patient satisfaction, review.
- **Fiscal planning** – Steps of,zero budgeting, midterm appraisal, capital and revenue. Budgeting- budget estimate, revised estimate and performance budget, budgeting for various units and levels.
- **Audit**
- **Health economics**
- **Health insurance**
- **Leadership**→ Concept, Styles leader behavior, group dynamics
- **Laws & ethics** – Code of ethics & Professional conduct, Medico legal issues
- **Nursing informatics-** E-nursing, telemedicine, telenursing, electronic medical records, management information and evaluation system (MIES).

- **b) Communication-** communication process ,types ,strategies interpersonal communication , channels , barriers , Problems , public relations
- **c) delegation of authority and responsibility**
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- **Laws & ethics** – Code of ethics & Professional conduct, Medico legal issues
- **Nursing informatics-** E-nursing, telemedicine, telenursing, electronic medical records, management information and evaluation system (MIES).

REFERENCES :

1. Sakharkar BM (2008). Principals of Hospital Administration, Pub. Jaypee .
2. Dr Goel S.L, Dr Kumar P. (2007), Hospital Administration and Management(Theory & practice) , Deep & Deep Publication.
3. Hermod Koontz & Wehrich Heinz, (2006), Essential of Management (An international perspective), Sixth ed., Pub. MC Graw-Hill.
4. Anita W. Finkelman, (2009), Leadership and Management in Nursing, Pub. Pearson
5. Lucita Mary,(2007),Nursing Practice and Public health Administration, Second ed., Pub. Elsevier
6. Carolyn Chambers Clark,(2010), Creative Nursing Leadership & management ,Pub. Jones & Bartlett.
7. TNAL2007, Nursing Administration and Management,Printed at Ideas 2 Images, New Delhi.

Subject 2: EDUCATION & NURSING EDUCATION

Topics:

- **Philosophical Foundation for Excellence in nursing**
- **Management strategies in the educational setting** - Class room Management in nursing educational Setting, Communication skills
- **Using latest technology in nursing education --**
- **Learning resources**
- **Skill competencies, Psychomotor Skill development, Self directed learning**
- **Assessment and Evaluation Strategies** -Program Assessment and Evaluation, Course assessment.
- **Management strategies in client care settings** — Clinical Education for today's Nursing students. Student's perception of Clinical education.
- **Standardized & non standardized tests :**
 - Essay, short answer questions & multiple choice questions
 - Rating scales, checklist, objective structured clinical/ practical examination.
 - Differential scales, summated scales, sociometry, anecdotal records, attitude scales, critical incident technique.
- **Curriculum development :** curriculum models.
- **Role of boards/ University, INC, State nursing councils for maintenance of educational standards.**
- **Achieving Excellence in Nursing education** - Transforming nursing education, Promoting excellence, Innovation, Evidence based nursing education,
- **Shaping a future Vision for nursing Education.**

Subject 3: MEDICAL and SURGICAL NURSING

Topics:

- **Philosophy and Approach of Medical Surgical nursing.**
- **Trends & issues in Medical Surgical Nursing.**
- **National health programs related to adult population.**
- **Health care delivery and Nursing Practice** --- Models of nursing care delivery. Community based nursing.
- **Critical thinking and decision making and the Nursing process.**
- **Stress & burn out syndrome among health team members**
- **Fluid and electrolyte : Balance and disturbances.**
- **Pathophysiology and management of diseases of different body systems.**
- **Altered Pulmonary conditions** – Asthma , COPD , Pulmonary , Tuberculosis
- **Gastrointestinal System** –Inflammation, Diseases of Gastro intestinal tract, Cirrhosis of Liver , Hepatitis
- **Cardiac disorders** – Coronary artery diseases , Congestive cardiac failure, Rheumatic heart disease, Hypertension , Cardio pulmonary resuscitation , Cardiac Emergency.
- **Blood disorders** – Anemia & its types .
- **Genitourinary system** –Glomerular nephritis (chronic & acute) Nephritic syndrome, Acute and Chronic Renal Failure, renal tuberculosis .
- **Endocrine System** –Hypothyroidism, Hyperthyroidism, Diabetes Mellitus
- **Musculoskeletal system** -- Osteo Arthritis ,Trauma & injuries (fracture & its management), bone tumors (benign , malignant & metastatic)
- **Diseases of the brain and spinal cord-**, brain tumours, Cerebro Vascular Accident (CVA), spinal deformities. Spinal Injury

- Eye & ENT -- Otitis Media, Cataract, Glaucoma
- **Miscellaneous Conditions:**
 - Pathophysiology and management of acute Burn
 - Cancer of Breast
 - Cancer of Larynx
 - Cancer of Cervix
 - Disaster Management
 - Theories of Ageing, Successful Ageing
- **HIV & AIDS**
- **Concept of Holistic care applied to critical care nursing practice – Therapeutic touch, Relaxation, Yoga, Music therapy, Guided imagery, Acupressure.**

REFERENCE

- a. Suzanne c. Smeltzer, 2008, Medical Surgical Nursing, 11th ed., Pub. Lippincott
- b. Chintamani, 2011, Levis's Medical Surgical Nursing, 1st ed., Pub. Elsevier
- c. Patricia Gonca Morton, 2009, Critical Care of Nursing, Ninth ed., Pub. Lippincott
- d. Joyce M. Black, 2009, Medical Surgical Nursing, Eighth ed., Vol. I, Pub. Elsevier
- e. Joyce M. Black, 2009, Medical Surgical Nursing, Eighth ed., Vol. II, Pub. Elsevier
- f. Priscilla Lemone, 2008, Medical Surgical Nursing, Fourth ed., Pub. Pearson

M.Phil/ Ph.D. Entrance Test Syllabus Chemistry

DEVI AHILYA VISHWAVIDYALAYA, INDORE

SYLLABUS FOR Ph.D. ENTRANCE TEST IN CHEMISTRY

Physical Chemistry

1. Principles and applications of quantum mechanics - hydrogen atom, angular momentum.
2. Variational and perturbational methods.
3. Basics of atomic structure, electronic configuration, shapes of orbitals, hydrogen atom spectra.
4. Theoretical treatment of atomic structures and chemical bonding.
5. Chemical applications of group theory.
6. Principles and application of spectroscopy - rotational, vibrational, electronic, Raman, ESR, NMR.
7. Chemical thermodynamics.
8. Partition Functions and Statistical thermodynamics.
9. Chemical equilibria.
10. Electrochemistry - Nernst equation, electrode kinetics, electrical double layer, Debye-Hückel theory.
11. Chemical kinetics - Empirical rate laws, Arrhenius equation, theories of reaction rates (Liquid Phase and Vapour Phase), determination of reaction mechanisms, experimental techniques for fast reactions.
12. Concepts of catalysis.
13. Solids - structural classification of binary and ternary compounds, diffraction techniques, bonding, thermal, electrical and magnetic properties
14. Polymer chemistry: Molecular weights and their determinations. Kinetics of chain polymerization.
15. Data analysis

Inorganic Chemistry

1. Chemical periodicity
2. Structure and bonding in homo- and heteronuclear molecules, including shapes of molecules.
3. Concepts of acids and bases.
4. Chemistry of the main group elements and their compounds. Allotropy, synthesis, bonding and structure.
5. Chemistry of transition elements and coordination compounds - bonding theories, spectral and magnetic properties, reaction mechanisms.

A. Sharma 08-6-2012
H. Prasad 08/06/2012
S. Prasad 08/06/2012
R. Prasad 08.06.2012
08/6/12

M.Phil/ Ph.D. Entrance Test Syllabus

चित्रण एवं चित्रकला

पी. एच. डी. पाठ्यक्रमों के सिलेबस की जानकारी!

1. भारतीय चित्रकला - अंक 20
प्रागैतिहासिक काल से समकालीन कला (1960 तक)
2. यूरोप की चित्रकला - 15
प्रागैतिहासिक काल से समकालीन कला (1960 तक)
3. पूर्व की कला - 15
(चीन, जापान, पारस) प्रागैतिहासिक से 1960 तक
4. भारतीय कला के मूल तत्व - 10
कला के तत्व - कला, कला की परिभाषा, षडंग, सृजन
5. भारतीय मूर्तिकला - 20
प्रागैतिहासिक काल से 15 वीं शती तक
6. कला समीक्षा - 20
(अ) सौन्दर्य - साश्चात्य (सुकरात, अरस्तु, प्लेटो, टालस्टाय, बान्ट, डीगेल)
(ब) सौन्दर्य - भारतीय (भारतमुनी का रस सिद्धान्त, आग्निनय मुद्रा)

चित्रण एवं चित्रकला

पी. एच. जी. पाठ्यक्रमों के लिए सिलेबस की जानकारी!

- | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 1. भारतीय चित्रकला -
प्रागैतिहासिक काल से समकालीन कला (1960 तक) | अंक
20 |
| 2. यूरोप की चित्रकला -
प्रागैतिहासिक काल से समकालीन कला (1960 तक) | 15 |
| 3. पूर्व की कला -
(चीन, जापान, फारस) प्रागैतिहासिक से 1960 तक | 15 |
| 4. भारतीय कला के मूल तत्व -
कला के तत्व - कला, कला की परिभाषा, षडंग,
सृजन | 10 |
| 5. भारतीय मूर्तिकला -
प्रागैतिहासिक काल से 15 वीं शताब्दी तक | 20 |
| 6. कला समीक्षा -
(अ) सौन्दर्य - पाश्चात्य (सुकरात, अरस्तु, प्लेटो,
दालसदाय, बान्ट, हीगेल)
(ब) सौन्दर्य - भारतीय (भरतमुनी का रस सिद्धान्त,
अग्निनय मुद्रा) | 20 |

**M.Phil/ Ph.D. Entrance Test Syllabus
Geography**

प्रवेश परीक्षा प्रस्तावित पाठ्यक्रम (पी.एच.डी / एम.फिल)

भौतिक विधि का पाठ्यक्रम

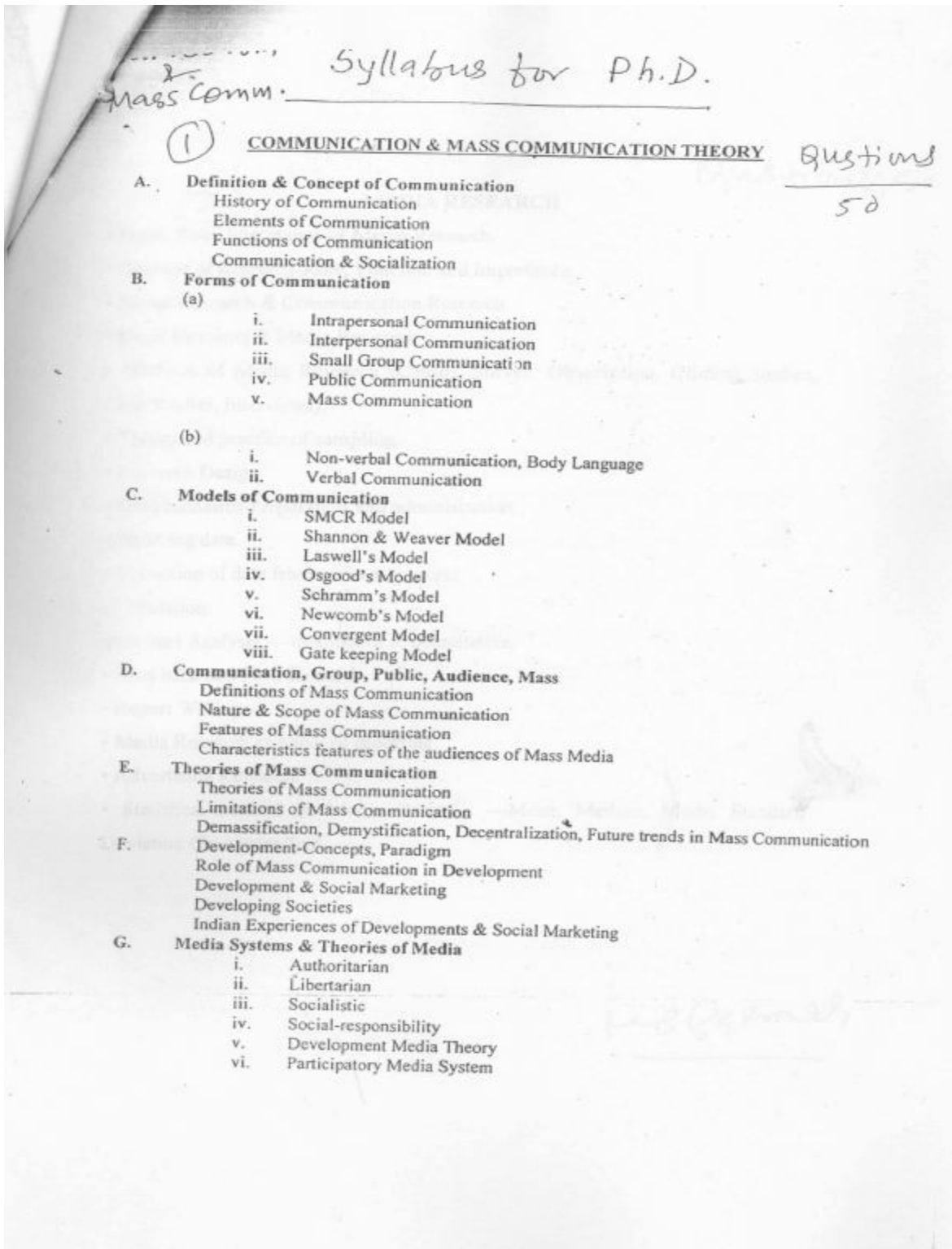
- 1) सामाजिक विज्ञान में भौतिक संकल्पना।
- 2) भूगोल में भौतिक उपागम - व्यवहार परक एवं परम्परागत
- 3) भौतिकी की अवधारणा - प्रतिकालिक अध्ययन
- 4) भौतिक मानक को चिह्नित करना
- 5) परिष्कृत निर्धारण - उनके प्रकार, विश्वसनीयता स्तर
- 6) सांख्यिकीय संगणक - इनके क्षेत्र, धरातल पत्रक, प्रक्षणापत्ती, साक्षात् कल्पना, प्राचल का निर्धारण।
- 7) मात्रात्मक विधियाँ - विचयन, प्रसरण, रस सम्बन्ध प्रतिफलन, प्रा - प्रत्यक्ष, व्याख्या की तुलना के अन्तर्गत त्रुटि तथा कर्ष की परीक्षण।
- 8) कम्प्यूटर आनचित्रांकन - क्रिया विधि एवं चरक।
- 9) जी.आई.एस. - परिभाषा, विषय क्षेत्र, तत्व तथा त्रुटि एवं प्रक्रिया का विवरण।
- 10) सूक्ष्म संवेदन - स्पेक्ट्रम, संवेदन, विकिरण रिक्ति भूगोल में सूक्ष्म संवेदन की प्रासंगिकता उपग्रहीय सूक्ष्म संवेदन - लैंड सैट, SPOT, ग्रन्थ सूची का निर्माण एवं सर्वेक्षण सूची निर्माण, सम्बन्धित साहित्य का पुनरावलोकन करने का अनिवार्य एवं प्रक्रिया।

इसके अतिरिक्त स्नातकोत्तर कक्षाओं में चलने वाले आधा-पूरा पत्रों की विषय वस्तु को भी सम्मिलित किया जा-
विशेषकर :-

- 1) भारत एवं मध्य प्रदेश का भूगोल
- 2) जनसंख्या भूगोल
- 3) औद्योगिक भूगोल
- 4) आर्थिक भूगोल
- 5) पर्यावरण भूगोल

31-5-12
31-5-12
Vyasa

M.Phil/ Ph.D. Entrance Test Syllabus Communication & Mass Communication



Questions: 50

2

MEDIA RESEARCH

- Need, Role, Importance of Media Research.
- Concept of Research-Role, Function and Importance.
- Social Research & Communication Research.
- Basic Elements & Media Research.
- Methods of Media Research (Census, Survey, Observation, Clinical Studies, Case Studies, Interviews).
- Theory and practice of sampling.
- Research Design.
- Questionnaires-Preparation and administration.
- Handling data.
- Collection of data from various sources.
- Tabulation.
- Content Analysis — qualitative & quantitative.
- Feed back and Feed forward.
- Report Writing.
- Media Research as a tool of reporting.
- Advertising Research.
- Statistical Method in Media Research —Mean, Median, Mode, Standard Deviation Chi-square Test.

Ms. Pamela

Ms. Pamela

Mass Communication,
Syllabus for M. Phil.

(1) Communication Theory —

Questions
25

Nature and scope of Communication.
Process, Types of Communication.
Role of Communication in Society, Culture, Education.
Communication Models.
Communication Theories.

(2) Development Communication — 25

Development: Concept, Meaning, Process and Models of Development.
Development Communication: Meaning, Concept, models of Development Communication,
Agriculture Communication and Rural Development. Agriculture extension diffusion of innovation.
Development Support Communication: Population and family welfare, health, education
Agencies and Development. Government and Development.
Media writing for Development.

(3) International Communication — 25

Political, economic and cultural dimensions of international communication
Communication as a human right UNO's Universal Declaration of human rights and communication.
Effects of Globalization on Media System and function.
Transnational Media ownership and issues of sovereignty and security.
International Intellectual property right.
International telecommunication and regulatory organizations — UNESCO's efforts in removal imbalance in news flow, Information super highways.
Debate on new international information and economic order.

(4) Communication Research — 25

Concept of Research- Role, Functions, Importance.
Need & Role of Media Research.
Basic Elements of Media Research, Problem, Hypothesis.
Methods of Media Research.
Tools of Media Research; Questionnaires, Sampling, Interview, Observation.
Data Collection, Statistical Method in Media Research.
Research Design, Research Report.

Ms. J. S. J.

M.Phil/ Ph.D. Entrance Test Syllabus Military Sciences

DEVI AHILYA UNIVERSITY, INDORE, M.P.
SYLLABUS FOR Entrance Exam. For M.Phil. and
Ph.D. In MILITARY SCIENCE

PART-1

Study of Military History, Military System And The Art and Science
of War in India

A. Military History, Military System, Military Reforms And The Art of War in
Ancient Period :

Organization, Weapon System, Types of the Forces and Their Role during War and Peace, Formations, Strategy, Tactics, Deployment of Forces, Art of Fortification and Camp, Art of Planning and Fighting, Intelligence and Ambassador System in Ancient Period in India.

Military History, Military System, Military Reforms and the Art of War in Vedic and Epic Period.

Comparative Study of Indo-Greek Art of War With reference to the Battle of Hydaspus-326 B.C.

Military History, Military System and the Art of War in Mauryan Period as Described by Kautilya and Magasthenese.
Kautilya's Philosophy of War.

B. Military History, Military System, Military Reforms And The Art of War in
Medieval Period :

Organization, Weapon System, Types of the Forces and Their Role during War and Peace, Formations, Strategy, Tactics, Deployment of Forces, Art of Fortification and Camp, Art of Planning and Fighting, Intelligence and Ambassador System in Medieval Period in India.

Military History, Military System, Military Reforms and the Art of War of Delhi Sultanates / Turks, Rajpoots, Mughals, Marathas (Shivaji & After Shivaji), Sikhs.

Critical Study & Analysis of the Following Battles:

- a. The Battle of Somnath (1025-26 A.D.)
- b. The Battles of Terrain (1191 & 1192 A.D.)
- c. The Battles of Panipat (1526, 1556 & 1761 A.D.)
- d. The Battle of Khanwa (1527 A.D.)
- e. The Battle of Haldi-Ghati (1576 A.D.)
- f. The Battle of Plassy (1757 A.D.)
- g. The Battle of Assaye (1803 A.D.)
- h. The Battle of Sobraon (1846 A.D.)

1
19.6.12

17-6-12

C. Military History, Military System, Military Reforms And The Art of War of Pre-Independence Period :

Organization, Weapon System, Types of the Forces and Their Role during War and Peace, Formations, Strategy, Tactics, Deployment of Forces, Art of Fortification and Camp, Art of Planning and Fighting, Intelligence and Ambassador System of **Pre-Independence Period** in India.

Military History, Military System, Military Reforms and the Art of War of **East-India Company**.

First Liberation Movement of India-1857.

Re-Organisation of Indian Army under the **British Crown**, various reforms and its Impact.

D. Military History, Military System, Military Reforms And The Art of War of Post-Independence Period :

Nationalization / Indenisation and Re-Organisation of Indian Armed Forces After Independence.

Causes and Political, Economical, Strategical, Tactical, Psychological, Morale, Scientific & Technological and Other Lessons, Critical Study & Analysis of the Following Wars:

- a. Pak Invasion in Kashmir (1947-48 A.D.)
- b. India-China War (1962 A.D.)
- c. Indo-Pak War (1965 A.D.)
- d. Indo-Pak War (1971 A.D.)
- e. Kargil War (1999 A.D.)
- f. Pakistan's Proxy war Against India

E. All Other Aspects of Indian Military History, Military System, Military Reforms and the Art & Science of War.

PART-2

Study of Military History, Military System And The Art and Science of War in the west

A. Effect of Armament on Tactics: A General Study.

Organization, Weapon System, Types of the Forces and Their Role during War and Peace, Formations, Strategy, Tactics, Deployment of Forces, Art of Fortification and Camp, Art of Planning and Fighting, Intelligence and Ambassador System in the West.

B. Military History, Military System, Military Reforms and the Art & Science of War in The Age of Valour:

Organization, Weapon System, Types of the Forces and Their Role during War and Peace, Formations, Strategy, Tactics, Deployment of Forces, Art of Fortification and Camp, Art of Planning and Fighting, Intelligence and Ambassador System in Greek and Roman Military History, Military System, Military Reforms and Art and Science of War.

Critical Study and Analysis of the Following Battles:

- a. The Battle of Arbela (331 B.C.)
- b. The Battle of Cannae (216 B.C.)
- c. The Battle of Zama (202 B.C.)

C. Military History, Military System, Military Reforms and the Art & Science of War in The Age of Chivalry :

Emergence and Decline of Cavalry,
Cavalry Tactics of Zenghiz / Genghis Khan (1206-1227 A.D.)

Critical Study and Analysis of the Following Battles:

- a. The Battle of Adrianople (378 A.D.)
- b. The Battle of Hastings (1066 A.D.)
- c. The Battle of Crecy (1346 A.D.)
- d. Re-Emergence of Infantry.

D. Military History, Military System, Military Reforms and the Art & Science of War in The Age of Gun-Powder:

Impact of Science and Technology on Warfare.

Military Reformers and Reforms and their Effects on Contemporary Warfare.

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E. Military History, Military System, Military Reforms and the Art & Science of War in The Age of Steam:

- a. The Revolution in Tactics.
- b. Critical Study and Analysis of **The war of American Independence / American Revolution (1775 A.D.- 1783 A.D.)**
- c. **The French Revolution (1789 A.D.)** and Napoleonic Art of Warfare and its Interpretation by Clausewitz, Jomini and Other Military Thinkers.
- d. **The Battle of Waterloo (1815 A.D.)**
- e. Critical Study and Analysis of **The American Civil War (1861-1865).**
- f. Rise of Professional Armies and Navies in the Nineteenth Century A.D.
- g. **Industrial Revolution** and its Influence on American Imperialism.

F. Military History, Military System, Military Reforms and the Art & Science of War in The Age of Oil:

- a. Introduction and Impact of Science and Technology on the Warfare and Evolution of Modern Armament and Tactics in the Age of Oil.
- b. Due to New Inventions in the Field of Armament, Major changes and new Trends in the Field of Weapons, War Planning, Strategy, Tactics, Logistics and new Pattern of Fighting.
- c. Critical Study and Analysis of **The First World War (1914 A.D.-1918 A.D.), The Second World War (1939 A.D. - 1945 A.D.)**
- d. Air Power and Warfare with reference to the Theories of Douhet, Mitchell and Seversky.
- e. Naval Power and Warfare with reference to the Theories of A.T.Mahan.
- f. Critical Study and Analysis of the Role of Air and Naval Power, Weapons, Doctrines, Strategy, Tactics and the Future.
- g. Armoured and Mechanical Warfare with reference to the Theories of J.F.C.Fuller and Capt. B.H.Liddell Hart.
- h. Critical Study and Analysis of the Role of Armoured and Mechanical Warfare.
- i. The Russian Revolution Impact of Class Struggle.
- j. Critical Study and Analysis of the Following Battles:
 - * The First Battle of Sedan (1870)
 - * Siege of Port Arthur (1904-1905)
 - * The Battle of Tannen-Berg (August-1914) and The Battle of Marne (September- 1914)
 - * The Battle of Amiens (August-1918)
 - * The Battle of Warsaw(August-1920)
 - * The Second Battle of Sedan (June-1940)
 - * The Battle of Moscow (1941-1942)
 - * The Battle of Normandy (June-1944)

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PART-3

Military History, Military System, Military Reforms and the Art & Science of War in The Nuclear Age:

Invention and Explosion of Atom / Nuclear Bomb, Hydrogen / Thermonuclear Bomb, Neutron Bomb and its overall Effects / Impact on the World.

A. Emergence of new Strategies and their Effect:

- a. Preventive Strategy.
- b. Pre-Emptive Strategy.
- c. Strategy of Massive Retaliation.
- d. Strategy of Graduated Deterrence.
- e. Strategy of Flexible Response.
- f. Counter City Strategy.
- g. Counter Force Strategy and
- h. Strategy of Deterrence.
- i. Nuclear Deterrence.

B. Study and Analysis of the various Kinds of Warfare and Their Weapons:

- a. Conventional and Unconventional Warfare.
- b. Atomic / Nuclear Warfare.
- c. Chemical Warfare.
- d. Biological Warfare.
- e. Guerrilla Warfare.
- f. Psychological Warfare.
- g. Cold War.
- h. Political Warfare.
- i. Economical Warfare.
- j. Electronic Warfare.
- k. Information Warfare.
- l. Cyber Warfare.
- m. Star / Space Warfare.


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PART-4

National Defence and Security

- A. National Defence and Security: Definitions, Concept, Elements and Importance.
- B. National Power: Definitions, Concept, Elements and Importance.
- C. National Interest: Definitions, Concept, Elements and Importance.
- D. National Defence and Security Strategies:
 - a. Balance of Power.
 - b. Collective Defence and Security.
 - c. Regional Defence and Security.
 - d. Non-Alignment.
 - e. Deterrence.
 - f. Disarmament and Arms Control.
- E. Problems and Prospects of Disarmament, Arms Control and National Defence and Security.
 - a. History of Disarmament and Arms Control.
 - b. Efforts towards Disarmament and Arms Control.
 - c. Bilateral and Multilateral Arms Control Agreements.
 - d. The Public Opinion on War and Peace.
 - e. India and Disarmament.
 - f. Regional Disarmament and Arms Control.
 - g. India-Pakistan Arms Race and the Future of Disarmament and Arms Control.
- F. Geo-Political and Geo-Strategical Location and National Defence and Security.
- G. Internal and External Threats & National Defence and Security.
- H. Economic Liberalisation and National Defence and Security.
- I. Inter-Linkages amongst Foreign Policy, Defence Policy & Nuclear Policy and National Defence and Security.
- J. International Terrorism: Concept, Application, Importance in Modern Time, Problems and Solutions.
- K. Insurgency & Counter Insurgency: Concept, Application, Importance in Modern Time, Problems and Solutions.
- L. Nuclear Weapons and Security.
- M. Chemical Weapons and Security.
- N. Biological Weapons and Security.
- O. Space Weapons and Security.
- P. Various kinds of Missiles and their effects and Security.
- Q. Scientific and Technological Development and National Defence and Security.
- R. Role of Neighbouring Countries and National Defence and Security.
- S. International Relations and National Defence and Security.
- T. Role of Super Powers and National Defence and Security.
- U. Dispute with the Neighbouring Countries and National Defence and Security.

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PART-5
Evolution of Strategic Thoughts

A. Introduction: Approaches to Study of Strategic Elements.

B. Strategic Thoughts in 18th Century:

- a. Niccolo Machiavelli.
- b. Gustavus Adolphus
- c. Sebastien Vauban.
- d. Fredrick the Great.
- e. Napoleon and His Interpreter:
 - *General Carl Von Clausewitz
 - And
 - *General Antoine Henri Jomini.

C. Strategic Thoughts in 19th Century:

- a. Helmuth Karl Moltke.
- b. Alfred Schlieffen.
- c. Adam Smith, Hamilton, Fredrick List.
- d. Karl Marx and Fredrick Engels.
- e. Hans Del Bruck.
- f. Ludendorff.
- g. Captain B.H. Liddell Hart.
- h. J.F.C. Fuller.
- i. Admiral Alfred Thayer Mahan.
- j. General Giulio Douhet.

D. Strategic Thoughts After 1945 (Post War Concept)

- a. Adolf Hitler.
- b. Mao-Tse-Tung.
- c. Che-Guevara.
- d. Andre Beufre.
- e. Halford Mackinder.

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PART-6
Military Psychology

A. Psychology and the Soldier:

Relevance of Psychology in Defence Problems.
Personnel Selection and Classification for Defence Services.
Use of Intelligence Testes: Group Testing Procedure and Elementary Personality Testing.

B. Application of Principles of Psychology in Military Training:

- a. Motivation, Learning, Group and Individual Education.
 - b. Discipline: Definitions, Meaning, Importance, Types, Psychology of Discipline, Discipline and Drill, Discipline and Education, Methods of developing Discipline.
 - c. Adjustment during Army Life.
 - d. Problems of Re-Adjustment of Ex-Soldiers
 - e. Psychological Defence and Escape Mechanism.

C. Group Dynamics in Military Life:

Group: Structure, Types and their Functions, Formation of Social Norms, Group Problem Solving.

Leadership: Definitions, Meaning, Nature, Functions, Emergence of Leader, Qualities /Features of a Leader and Types / Classification of Leadership,

Moral: Nature, Types, Determinants and Techniques of Boosting Morale and its Significance in Defence.

Attitude: Attitude Organizations, Impact of Military Life on the formation of Attitudes.

Fear: Definitions, Meaning, Characteristics, Types, Reasons and Methods to Overcome Fear.

Courage: Definitions, Meaning, Importance, Types and Effecting Elements.

Espirit-de-Corps: Definitions, Meaning, Importance, Effecting Elements, Methods of developing Espirit-de-Corps.

Man-Management: Definitions, Meaning, Importance and Methods of Man-Management.

D. Mental Health and Soldier in War:

a. **Mental health Problem:** Causes, Recognition / Identification and Predisposing Conditions and Treatment during War and Peace.

b. **Major Diseases:** Psychological Disorder, Anxiety, Neurosis and War Neurosis, Hysteria and War Conversion Hysteria.

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PART-7
Study of Military Campaigns

A. North African Campaign (1941-1943).

1. Military History and Allied Geography of North African Campaign.
2. Strategic Back ground of North African Campaign.
3. The Battle of Sidi Barrani.
4. The Battle of Sidi Rezagh.
5. The Battle of Gazala.
6. The Battle of Alam-Halfa.
7. The Battle of El-Alamein.
8. The Battle of Mareth-Line.
9. The Battle of Tunisia.

B. Arab-Israel wars (1956, 1967 & 1973).

a. Arab-Israel war-1956:

1. Historical Background of Arab-Israel war-1956.
2. Geo-Strategical Importance of Arab-Israel war-1956.
3. Causes of Arab-Israel war-1956.
4. The Battle of Milt-Pass.
5. The Battle of Abu-Aghila.
6. The Battle of Refab.
7. Causes of Arab Defeat in Arab-Israel war-1956 and Lessons.

b. Arab-Israel war-1967 & 1973:

1. Historical Background of Arab-Israel war-1967.
2. Historical Background of Arab-Israel war-1973.
3. Naval and Air War of Egypt and Israel-1973.
4. Causes of Arab Defeat in Arab-Israel war-1967 & 1973 and Lessons.

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PART-8

India and National Defence and Security

1. An Evaluation of India's National Defence, Security and National Power.
2. Absolute Character and Permanent Character of Power.
3. Unreliability of Single Factor, Geo-Politics, Nationality and Militarism.
4. Problems and Policy of India's Defence and Security in Pre-Independence period.
5. India's Quest for Defence and Security & Problems on National Defence and Security.
6. Geo-Strategical Location of India.
7. Defence Policy of India and the Development of National Defence and Security.
8. Foreign Policy of India and the Development of National Defence and Security.
9. Nuclear Policy of India and the Development of National Defence and Security.
10. India's Nuclear Relation with Great Powers.
11. Developments in the Nuclear field in the Third World and its Security implications for India.
12. Internal Threats and Security Problems in Different Regions of India.
13. **Internal Threats:**
Political, Economical and Defence Factors With Pakistan & China and Threat Preparation.
14. **External Threats:**
Political, Economical and Defence Factors with Neighbours (with special reference to Pakistan & China) and Threat Preparation.
15. Indian National Strategy to Meet Security Threats (Internal & External)
16. India's Relations with other Immediate Neighbouring Countries.
17. India's Relations with Super Powers (America and Russia).
18. India's Special Position in the World Strategic Environment.
19. Strategic Environment in Indian Ocean region and India's Special Position in the Indian-Ocean and Defence and Security.
20. India's Strategy for Naval Security.
21. Security Problems in Different Regions of India with Special reference to **Insurgency and Terrorism.**
22. Role of Super and Major Powers in South-Asian Strategic Environment and its Impact on India's Defence and Security.
23. Nuclear Development in Pakistan & China and its Impact on India's Defence and Security.

PART-9

Science And Technology in War

Science and War in History:

1. Introduction and Impact of Science and Technology on the Warfare and Evolution of Modern Armament and Tactics.
2. Defence and Civil Technology.
3. Role of Research and Development.
4. Defence Industries and Technology.
5. Defence Protection and Defence Industries.
6. Nuclear Weapons, Fission and Fusion, Uranium and Plutonium.
7. Nuclear Weapons and their Impact on Tactics, Command and Control.
8. Spread of Nuclear Weapons and the Security of the World.
9. Missiles and Rockets, Missiles and Aircrafts as Weapon's Carrier.
10. Guidance and Propulsion.
11. Concept of Space and its Military Role.
12. Chemical and Biological Weapons, Air Cushioned Vehicles and their Role.
13. Effects of Science in Diminution of Human sufferings and World Problems.
14. Military Application of RADAR and LASER-RAYS.
15. Military Application of Electronics and Computer.
16. Remote Sensing and its Application in the Field of Defence and Security.
17. Satellite and its Military use.
18. War and Environment.

Scientific and Technological Developments in India:

1. India's Nuclear Test development and Present Technology.
2. Indian Missile Programme and Missiles in India.
3. India's Space Programme.
4. Development of Armament in India Since up to 1962.
5. Development of Armaments in India Since 1962 till today.

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Doctor of Philosophy

Ordinance No. 18 (Revised) effective 01-01-2012

Entrance Test – Objective Type questions

“SOCIOLOGY”

1. ऑगस्ट कॉम्ट – विज्ञानों का वर्गीकरण, तीन स्तर का नियम, प्रत्यक्षवाद

कार्ल मार्क्स – वर्ग संघर्ष, सामाजिक परिवर्तन का सिद्धांत

इमार्शल दुखीम – आत्महत्या का सिद्धांत, धर्म का सामाजिक सिद्धांत, यांत्रिक एवं सावयवी एकता

मेक्सवेबर – प्रोटेस्टेंट आचार एवं पूँजीवाद का विकास, सामाजिक क्रिया, नौकरशाही का सिद्धांत

थर्सटीन वेबलीन – विलासीवर्ग का सिद्धांत, सामाजिक परिवर्तन का सिद्धांत

पेरेटो – अभिजात वर्ग परिभ्रमण, तार्किक और अतार्किक क्रियाओं का वर्गीकरण

Auguste Comte – Classification of sciences, Law of three stages, positivism

Karl Marx – Theory of social change

Émile Durkheim – Theory of suicide Theory of Religion, mechanical and organic solidarities

Max Weber – Protestant ethics and rise of capitalism, theory of social action, Theory of

Bureaucracy

Veblen – Theory of leisure class, Theory of social change

Vifredo Pareto – Circulation of elites, classification of Logic and non logical actions

2. सामाजिक यथार्थ की प्रकृति एवं उपागम, सामाजिक अनुसंधान के प्रकार, उद्देश्य, सामाजिक

अनुसंधान के चरण, अनुसंधान अधिकल्प, उपकल्पना, अवलोकन, प्रश्नावली, अनुसूची, साक्षात्कार

संवेक्षण, व्यक्तिगत जीवन अध्ययन पद्धति, माध्य, मध्यका एवं भूमिष्ठक के सूत्र, सामाजिक अनुसंधान

में कम्प्यूटर की उपादेयता, सांख्यिकी का महत्व एवं सीमाएँ

Nature of social Reality and its approaches, Types of Social Research, aims, Basic steps in

Social Research, Reserch design, Hypothesis, observation, questionnaire, schedule, interview,

social suryes, case study, mean, median, mode (Formulæ) application of computer in social

research, statistics in social research- its importance and limitations

Satyajit

ग्रामीण समुदाय की विशेषता, गाँवों के प्रकार, ग्रामीण नेतृत्व, गरीबी, अस्पृश्यता (कानून) कृषक आंदोलन, सामुदायिक विकास योजना, पंचायती राज, हरित क्रांति ग्रामीण-नगरीय भिन्नता एवं सातत्य, ग्रामीण ऋणग्रस्तता, ग्रामीण प्रवासिता

Characteristics of Rural society, types of villages, rural leadership, poverty, untouchability (Law) Agrarian Movement in India, Community Development programme, Panchyati Raj, Green Revolution, Rural Urban distinction and continuum

नगरीय समाजशास्त्र का क्षेत्र, महत्व, नगरीय समाज की विशेषताएँ एवं परिवर्तन, नगरों के प्रकार, नगर नियोजन के तत्व, कस्बा और नगर, गंदी बस्ती, नगरीय पर्यावरण की समस्याएँ

Scope of Urban sociology, its importance, characteristics of Urban society and changes. Types of cities, components of town planning, town and city, slums, Urban Environmental Problems.

नातेदारी- अर्थ, प्रकार, रीतियाँ, विवाह के उद्देश्य, प्रकार, जीवनसाथी चुनने के तरीके, मातृवंशीय परिवार, वृद्धों की समस्याएँ, परिवार एवं विवाह से संबंधित कानून, अन्तर पीढ़ी संघर्ष, परिवार की उत्पत्ति के सिद्धांत, जाति और वर्ग, जनजातिय भारत - धर्म और जादू, अर्थव्यवस्था, जनजातिय समस्याएँ, संवैधानिक प्रावधान, जनजातिय आंदोलन

संस्कृति - परिभाषा, विशेषता, उपादान, सांस्कृतिक विलम्बना, परसंस्कृतिग्रहण, संस्कृतिकरण, संस्कृति और व्यक्तित्व

Kinship - Meaning types and usages aims of marriage and types, ways of acquiring mates, patriarchal family, problems of elderly, laws relating to family and marriage, Inter generation conflict caste and class

Tribal India - Religion and magic, Economic system, problems and constitutional provisions. Tribal movements

अपराध की अवधारणा, बाल अपराध, अपराध और अपराधियों का वर्गीकरण, अपराध के सिद्धांत, दंड के सिद्धांत, अपराध के सिद्धांत, जेल प्रबंधन, प्रोबेशन, पैरोल, खुली जेल, भ्रष्टाचार, श्वेतपोश अपराध, नियमविहीनता

Crime - Juvenile delinquency, classification of crime and criminals, Theories of punishment prison managements, Theories of crime probation, parole, open prison, Anomie.

Srtep

समाजशास्त्रीय सिद्धांत - अर्थ एवं प्रकार, सामाजिक संरचना- ब्राउन, नैडेल

प्रकार्यवाद - टुरखीम, मेलिनोवस्की, संघर्ष के सिद्धांत- कार्ल मार्क्स एवं कोजर शूटज-
प्रघटनाशास्त्रीय समाजशास्त्र, मर्टन का नवप्रकार्यवाद

Sociological Theories - meaning and types of sociological theory, social structure- Radcliff
brown and S.F. Nadel

Functionism - Durkheim, melinowaski, conflict theory- marx and coser

Schutz - Phenomenological Sociology, Paradigm for functional theory in sociology - R.K.
Merton

8. सामाजिक परिवर्तन - अर्थ एवं सिद्धांत- रेखीय-चक्रीय प्रसारवाद, सामाजिक परिवर्तन के
कारण- जनसंख्यात्मक, आर्थिक, प्रौद्योगिकीय, सांस्कृतिक, पश्चिमीकरण, आधुनिकीकरण,
धर्मनिरपेक्षीकरण, उत्तर आधुनिकता पूँजीवाद, समाजवाद, गाँधीवादी चिंतन, सूचना तकनीकी क्रांति का
प्रभाव, वैश्वीकरण

Social change meaning and Theories, linear, cyclical and diffusion social change-
demographical, Economic technological and cultural, westernization, modernization,
secularization, post modernism, capitalism, socialist and Gandhian thought, Importance of
information Technology

9. राजनीतिक, समाजीकरण, राजनैतिक संस्कृति, प्रजातंत्र, जनता एवं जनमत दबाव समूह एवं हित
समूह, मतदाता व्यवहार, प्रचार एवं नेतृत्व, जाति और राजनीति

Political socialization, political culture, Democracy, public and public opinion, pressure and
interest group, voting behavior, propaganda, leadership, caste and politics

10. जनगणना का महत्व, जन्मदर, मृत्युदर, परिवार नियोजन, जनसंख्या का माल्थस का सिद्धांत, परिवार
कल्याण कार्यक्रम, भारत में जनसंख्या की भूमिका

Importance of census policy in India, Birth and death rate, Family planning, Malthusian theory
of population, Family welfare programme, Demographic role in India

S. S. S. S.

**M.Phil/ Ph.D. Entrance Test Syllabus
Home Sciences**

M.Phil / Ph.D Home Science Entrance
Exam
Syllabus
Max. Marks. 100

Unit I Overview of Nutrients - major and minor nutrients for human well being, food groups their composition and recent trends of food processing. Recent advances in human nutrition with special reference to life cycle related problems. Indicators of well being - assessment of nutritional status. Current national and international scenario of life style diseases and their management. 20 marks

Unit II Concept and principles of Human Development - Developmental Tasks. Early language development. Motor and intellectual development. Learning and motivation. Freud's Psychoanalytic theory. Physical changes and characteristics of adolescence.

Unit III Elements of Art and principles of Design. Household equipments - their working, construction and care. Theories of Management - Management process. Decision making - Family Resources. Recent trends in furniture - decorative accessories, wall and floor coverings. Soft furnishings - their selection arrangement. Care and recent trends. 20

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Unit IV Textile

Textile fiber study - origin - properties and Blends.

Spinning, weaving and other modes of fabric production

Finishes and recent developments of Textural Texturing.

Dyes and dyeing of fabrics.

Surface ornamentation of Garments 20 marks


Unit V Methods of teaching - New techniques in teaching, Audio visual aids and their uses.

Women Empowerment - various schemes related to women empowerment. Awareness on legal issues.

Communication - Approach, types uses and recent trends.

Home science education as empowerment
The role of Home science education in personal growth and professional development

Planning and evaluation of community development Programme. 20 marks


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(Dr. P. Kishore Kumar)
M. Patni
21/6/12
DR. M. PATNI

K. Tewari
21.6.12
Dr. Mrs. Kirati Tewari
M. R. S. Shalika
21.6.12
(Dr. N. R. Shalika)

M. Kothari
21/6/12
(Dr. N. Kothari)