

ENTRANCE TEST FOR DOCTOR OF PHILOSOPHY (Ph.D.)

Date: 23rd August 2024

Time: 2.00 P.M. to 5.00 P.M.

Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E101

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B: Anatomy

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Describe the gross anatomy of stomach under following headings:
a). Parts b). Lymphatic drainage c). Blood supply d). Applied anatomy (3+5+5+2)

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Derivatives of neural crest cells.
3. Describe Down's syndrome.
4. Describe the microscopic structure of Hyaline cartilage.
5. Describe the blood supply of spinal cord.
6. Describe carpal tunnel syndrome.

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Max. Marks: 100

Q.P. CODE : E102

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B: MLT

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Describe the structure of immunoglobulin IgG. Enumerate the types of immunoglobulin mention their functions.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Define and classify anaemia. Mention the etiopathology, clinical features and general investigations
3. Discuss the method of collection, indication and contraindication of cerebrospinal fluid analysis
4. Explain the role of Levey Jennings chart in quality control. List the Westgard rules of rejection
5. Discuss the procedure of blood sample collection. Mention the various types of vacutainers and their uses
6. Discuss the procedure for safe disposal of biomedical waste

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Max. Marks: 100

Q.P. CODE : E103

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B: Community Medicine

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Enlist types of epidemiological studies. Discuss steps involved in conducting a case control study. (5+10)

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Explain principles of Primary Health Care with suitable examples.
3. Outline the strength and weakness of Focus Group Discussion (FGD). Add a note on qualities, which should be there in a facilitator in FGD.
4. Define health economics. Discuss various principles of health economics with suitable examples.
5. List the causes and prevention of juvenile delinquency.
6. Discuss functions of World Health organization.

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Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E104

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B: Microbiology

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Describe the methods of bacterial cultivation. Explain the nutritional requirement of bacteria. Add a note on bacterial growth curve.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Describe a bacterial cell with help of a labeled diagram. Discuss in detail about structure and functions of bacterial cell wall.
3. Define hospital-acquired infections. Describe the source and modes of transmission of such infections.
4. Define and classify hypersensitivity reactions. Add a note on delayed hypersensitivity.
5. Define sterilization. Describe dry heat sterilization methods.
6. Discuss in detail about biomedical waste management.

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Max. Marks: 100

Q.P. CODE : E105

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Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B : Forensic Medicine

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Describe the importance of Documentation in medical practice. Add a note on informed written consent.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Define lucid interval. Mention different types of skull fractures.
3. Discuss conditions simulating rigor mortis.
4. Describe the mechanism of traumatic asphyxia.
5. Mention the Medico legal applications of Blood groups.
6. Discuss the different types of microscopes and their uses in Forensic medicine.

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Q.P. CODE : E106

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Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B : ENT

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Draw a neat-labelled diagram of facial nerve in temporal bone. Design a plan for management of traumatic facial nerve paralysis (5+10)

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Hypothesize a clinical plan for implantable hearing aids in children.
3. Develop a clinical plan for newer techniques for radiotherapy in head & neck malignancy.
4. Discuss the role of phono-surgery in unilateral vocal cord palsy with illustrations.
5. A 45 years male has come with deformed lower 3rd nose. Devise a clinical plan for this patient with focus on rhinoplasty.
6. A patient seen in the casualty with bleeding from nose and after 10 minutes patient was dead. How will you counsel the relatives in this situation?

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Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E107

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B : OBG

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Discuss briefly the treatment for locally advanced cancer of breast. Discuss the evolution and current status of conservative surgery in breast cancer. (10+5)

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Discuss the management of high risk GTN.
3. Discuss the role of human papilloma virus in gynecologic oncology.
4. Discuss the management of malignant pleural effusion
5. Discuss in brief the treatment plan of radiotherapy for carcinoma cervix
6. Discuss about angiogenesis inhibitors in the treatment of ovarian cancer.

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Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E108

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B : Anaesthesia

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Describe cardiac cycle. Enumerate methods of cardiac output monitoring. Describe in detail one technique of invasive cardiac output monitoring.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Discuss about peri-operative pain management in children.
3. Discuss functional analysis of commonly used breathing circuits.
4. Write in brief about the influence of anti coagulants in anaesthetic practice.
5. Describe principles of medical audit. Add a note on critical incident reporting.
6. Discuss anaesthetic management in a patient with COPD posted for emergency abdominal surgeries.

ENTRANCE TEST FOR DOCTOR OF PHILOSOPHY (Ph.D.)

Date: 23rd August 2024

Time: 2.00 P.M. to 5.00 P.M.

Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E201

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B: Conservative Dentistry & Endodontics

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Critically analyse the impact of minimally invasive dentistry in the conservative dentistry and endodontics to improve patient outcomes.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Discuss the role of antibiotics in endodontics.
3. Discuss the management of mid root fractures.
4. Critically discuss various cavosurface preparations for restorations.
5. Management of sodium hypochlorite accident
6. Recent advances in isolation.

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Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E202

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B: Public Health Dentistry

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Define epidemiology. Write in detail about analytical study designs. Add a note on CONSORT Guidelines.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write in detail about development of face.
3. Discuss about National oral health policy.
4. Write about various steps of planning a program.
5. Describe biomedical waste management techniques
6. Add a note on evidence based dentistry.

ENTRANCE TEST FOR DOCTOR OF PHILOSOPHY (Ph.D.)

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Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E203

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B: Orthodontics

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Define growth and development. Enumerate different theories of growth. Describe in detail Melvin Moss theory of growth (old and new concept).

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Etiology of mal-occlusion.
3. Review of the principles of tooth movement.
4. Describe composites in relation to orthodontics.
5. Frankl functional regulator II
6. Critical appraisal of scientific literature.

ENTRANCE TEST FOR DOCTOR OF PHILOSOPHY (Ph.D.)

Date: 23rd August 2024

Time: 2.00 P.M. to 5.00 P.M.

Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E301

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B : PHARMACOLOGY

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Classify types of adrenergic receptors and their physiological role. Explain neurohumoral transmission of adrenaline in sympathetic nervous system.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Discuss the Physiological and pathological role of Prostaglandins in inflammation.
3. Enlist various *in vivo* methods for screening of anti-inflammatory agents in preclinical study. Explain any two models.
4. Explain the concept and methods of rational drug design in drug discovery process.
5. Classify the β -Lactam antibiotics. Describe the MOA and therapeutic indications with suitable examples.
6. Describe in detail protocol preparation for clinical trials.

ENTRANCE TEST FOR DOCTOR OF PHILOSOPHY (Ph.D.)

Date: 23rd August 2024

Time: 2.00 P.M. to 5.00 P.M.

Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E302

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B : PHARMACEUTICS

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. What is rate controlled drug delivery system? Explain activation modulated drug delivery with examples. Discuss about osmotically activated systems with different designs. (3+5+7)

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Explain Theory, Laws and Instrumentation associated with UV-Visible spectroscopy & give its applications in pharmacy.
3. Describe principle, concepts, advantages, disadvantages of gastro retentive drug delivery system. Write in brief about modulation of GI transit time.
4. What is optimization technique in formulation design? Explain concept and parameters of optimization, add a note on DoE.
5. What is microencapsulation? Mention various methods to prepare and write about phase separation coacervation method.
6. Discuss about computer simulations in pharmacokinetics and pharmacodynamics. Add a note on computers in clinical development.

ENTRANCE TEST FOR DOCTOR OF PHILOSOPHY (Ph.D.)

Date: 23rd August 2024

Time: 2.00 P.M. to 5.00 P.M.

Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E303

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B : PHARMACEUTICAL QUALITY ASSURANCE

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write in detail about IPQC for tablets and capsules as per IP.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write a note on IPQC for creams as per IP.
3. Write a note on handling of waste and scrap disposal.
4. Write a note on organization & personnel responsibilities in pharma industry.
5. Write a note on handling of complaints & recalls.
6. Write a brief note on quality by design (QbD).

ENTRANCE TEST FOR DOCTOR OF PHILOSOPHY (Ph.D.)

Date: 23rd August 2024

Time: 2.00 P.M. to 5.00 P.M.

Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E304

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B : PHARMACOGNOSY

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write the principle apparatus, instrumentation chromatographic parameters, factors affecting resolution, isolation of drug excipients, data interpretation & applications of ;
a) High performance thin layer chromatography
b) Gel chromatography

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the structure elucidation by spectroscopic techniques like UV & IR – carvone & kaempferol.
3. Write the fundamental concept of Ayurveda and shidda.
4. Write the chemistry of curcumin
5. Write the note on mevalonic acid pathway
6. Explain factors affecting extraction techniques.

ENTRANCE TEST FOR DOCTOR OF PHILOSOPHY (Ph.D.)

Date: 23rd August 2024

Time: 2.00 P.M. to 5.00 P.M.

Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E305

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B : PHARMACEUTICAL CHEMISTRY

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write principle, chromatographic parameters, factors affecting resolution and pharmaceutical applications of HPLC and gas chromatography.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Explain reaction mechanisms of SN1 and E2 reaction.
3. Illustrate enzyme kinetics and principle of enzyme inhibition in rational drug design
4. Write structural elucidation and stereochemistry of morphine.
5. Explain 2D NMR with one example.
6. Write physicochemical parameters of QSAR.

ENTRANCE TEST FOR DOCTOR OF PHILOSOPHY (Ph.D.)

Date: 23rd August 2024

Time: 2.00 P.M. to 5.00 P.M.

Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E306

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B : PHARMACY PRACTICE

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Explain the different quality assurance, quality control measures deployed in clinical trials, including various audits.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Explain the roles and responsibilities of pharmacist during ward round participation.
3. Define pharmacovigilance and what are the basic concept of pharmacovigilance.
4. Explain the different types of outcomes and measurements of pharmaco economics.
5. Provide the different time lines in drug safety reporting and its significance.
6. Explain the significance of developing the standard treatment guidelines for communicable diseases.

ENTRANCE TEST FOR DOCTOR OF PHILOSOPHY (Ph.D.)

Date: 23rd August 2024

Time: 2.00 P.M. to 5.00 P.M.

Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E401

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B : Samhita Siddhanta

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Narrate the phala of tadvidya sambhasha and narrate names of sambhasha used (5+10) in different chapters of chalak samhita.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Explain the importance of dinarcharya in the present era in relation to life style.
3. Define the definition of manu scriptology and its collection, conservation, cataloguing
4. Explain the kriyakaala according to sushruta samhita.
5. Explain the utility of parinamavaada in advancement of research in ayurveda.
6. Explain the application of chhatrino gacchanti nyaya.

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Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E402

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B : RASASHASTRA & BHAISHAJYA KALPANA

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write in detail about rasatarangini and yogaratnakara.

(7.5+7.5)

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Explain in detail about snehkalpa karmukata (pharmacokinetics and dynamics) and sandhanakalpa karmukata (pharmacokinetics and dynamics) (3.5+3.5)
3. Write in detail about concept of medicinal and functional food. (3.5+3.5)
4. Write the ingredients and method of preparation of arogyavardhini vati and sameerapannaga rasa. (3.5+3.5)
5. Write in detail about the preclinical evaluation and ethics involved in human research. (3.5+3.5)
6. Write in detail about patenting and intellectual property rights and chelation therapy in heavy metal toxicity. (3.5+3.5)

ENTRANCE TEST FOR DOCTOR OF PHILOSOPHY (Ph.D.)

Date: 23rd August 2024

Time: 2.00 P.M. to 5.00 P.M.

Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E403

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B : DRAVYAGUNA

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write the importance of namroopa vigyan and discuss about anukta dravyas (extrapharmacopial drugs) and sandhighda dravyas (controversial drugs).

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Explain dosage forms (vividha kalpana) & dosage (matra).
3. Write about rajnighantu and priya nighantu.
4. Discuss clinical drug research as per GCP guidelines.
5. Brief on anti-inflammatory animal experimental model with one example.
6. Discuss about different rasas and its applied aspect with one example each.

ENTRANCE TEST FOR DOCTOR OF PHILOSOPHY (Ph.D.)

Date: 23rd August 2024

Time: 2.00 P.M. to 5.00 P.M.

Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E404

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B : PANCHAKARMA

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Explain the concept of Samsarjana karma and explain the research updates related to samsarjana karma. (10+5)

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Explain Gut Brain and its relevance to Basti therapy
3. Elaborate on different shodhana therapies indicated in Jwara chikitsa
4. Explain different types of Raktmaokshana and explain the mode of its action
5. Explain Sneha Vyapat and its management.
6. Explain avasthanusara swedana prayoga in different diseases

ENTRANCE TEST FOR DOCTOR OF PHILOSOPHY (Ph.D.)

Date: 23rd August 2024

Time: 2.00 P.M. to 5.00 P.M.

Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E405

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B : Rachana Shareera

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Explain the masanu mashiki grabha vrudhi laxan in comparison with modern embryology.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Explain the relevance of pramana sharia in teaching rachana sharira.
3. Define shareera. Discuss the principles of sharirsthan of the sushruta samhitha.
4. Define sira. Explain types of sira in detail.
5. Define neuron. Explain neuroglial cells with respect to their function.
6. Explain the concept of shat chakra its location and significance in yoga.

ENTRANCE TEST FOR DOCTOR OF PHILOSOPHY (Ph.D.)

Date: 23rd August 2024

Time: 2.00 P.M. to 5.00 P.M.

Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E406

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B : Manasaroga

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Explain samanya karana and chikitsa of apasmara.

(7+8)

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Briefly explain about nidra.
3. Explain about relevance of diva vyapsharaya chikitsa in manasa roga.
4. Role of basti in manasa roga.
5. Application of meditation in manasa roga.
6. Electro convulsive therapy.

ENTRANCE TEST FOR DOCTOR OF PHILOSOPHY (Ph.D.)

Date: 23rd August 2024

Time: 2.00 P.M. to 5.00 P.M.

Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E407

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B : Agadatantra

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Define Dushivisha. Write its Laxana and Chikitsa. Discuss its contemporary relevance with suitable examples (7+8)

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Define different mode of poisoning. Write about vishakta-ahara and dravadravypareeksha
3. Write the Toxic compounds of lead. Discuss acute and chronic lead poisoning.
4. Discuss research updates of bilwadiagada and dushivishariagada
5. Write briefly about Death and medico legal aspects
6. Write briefly about court procedures.

ENTRANCE TEST FOR DOCTOR OF PHILOSOPHY (Ph.D.)

Date: 23rd August 2024

Time: 2.00 P.M. to 5.00 P.M.

Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E501

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B : MEDICAL SURGICAL NURSING

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Explain medical and surgical management of heart block.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Explain the management of patient undergoing haemodialysis.
3. Write the management of COPD.
4. Explain the nursing care of the patient with Disseminated Intravascular Coagulation.
5. Discuss the medical and surgical management of patent ductus arteriosus.
6. Explain the nursing management of patient undergoing peritoneal dialysis.

ENTRANCE TEST FOR DOCTOR OF PHILOSOPHY (Ph.D.)

Date: 23rd August 2024

Time: 2.00 P.M. to 5.00 P.M.

Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E502

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B : NURSING IN MENTAL HEALTH

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. a) Define mental retardation.
b) Explain in detail about types, management and prevention of mental retardation.

(3+12)

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Classify psychoactive substances.
3. Enumerate the rights of mentally ill client.
4. Discuss on group therapy.
5. Discuss the management of client with low self-esteem.
6. Hypochondriasis.

ENTRANCE TEST FOR DOCTOR OF PHILOSOPHY (Ph.D.)

Date: 23rd August 2024

Time: 2.00 P.M. to 5.00 P.M.

Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E503

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B : CHILD HEALTH NURSING

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Explain the physical, motor, psychological & cognitive development of pre-school child.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Staff development in paediatric care.
3. Nutritional needs of critically ill child.
4. Discuss on fluid management in diarrhea with dehydration.
5. Nursing care of child on ventilator.
6. Universal immunization programme.

ENTRANCE TEST FOR DOCTOR OF PHILOSOPHY (Ph.D.)

Date: 23rd August 2024

Time: 2.00 P.M. to 5.00 P.M.

Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E504

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B : Obstetrics and Gynaecology

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. a) Explain in detail the magnitude of maternal and child health problems in India.
b) Explain the role & scope of midwifery practice: independent nurse midwifery practitioner in India.
c) Discuss the research priorities in OBG nursing.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Discuss in detail National Rural Health Mission.
3. Explain the recent advancement in infertility management.
4. Explain the concept of family centered nursing care and nursing process approach in OBG nursing.
5. Describe the recent advancement in contraceptive technology & birth control measures.
6. Discuss the legal and ethical issues of midwifery practice.

ENTRANCE TEST FOR DOCTOR OF PHILOSOPHY (Ph.D.)

Date: 23rd August 2024

Time: 2.00 P.M. to 5.00 P.M.

Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E601

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B : COMMUNITY PHYSIOTHERAPY

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Explain in detail various occupational hazards in workers and preventive measures adopted to minimise the hazards. (8+7)

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Theories of Ageing
3. Role of Physiotherapist in ergonomic analysis.
4. Various Government schemes for persons with disability.
5. Physiotherapy management for urinary incontinence.
6. Explain labor law in India

ENTRANCE TEST FOR DOCTOR OF PHILOSOPHY (Ph.D.)

Date: 23rd August 2024

Time: 2.00 P.M. to 5.00 P.M.

Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E602

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B : NEUROPHYSIOTHERAPY

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write about recent development in orthotic management of peripheral nerve injury cases.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. How to assess and manage a case of vestibular hypo function?
3. What is dysphasia? How to manage dysphasia in stroke survivor?
4. How to perform electro diagnostic testing and manage a case of Lambert Eaton syndrome?
5. How to assess and manage a case of Duchene muscular dystrophy? Add a note on recent advancement in management of same.
6. Write methods of assessment of emotional intelligence and its relevance in managing a neurological condition.

ENTRANCE TEST FOR DOCTOR OF PHILOSOPHY (Ph.D.)

Date: 23rd August 2024

Time: 2.00 P.M. to 5.00 P.M.

Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E603

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B : PAEDIATRIC PHYSIOTHERAPY

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Explain electro-diagnosis using kinesiological electromyography for neurological conditions.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Explain the theories of motor learning.
3. Write about the role of physiotherapy for geriatric patients.
4. Write the effects of exercises on cardiac and musculoskeletal systems.
5. Explain about soft tissue manipulations used in musculoskeletal conditions.
6. Role of non-government organizations in CBR.

ENTRANCE TEST FOR DOCTOR OF PHILOSOPHY (Ph.D.)

Date: 23rd August 2024

Time: 2.00 P.M. to 5.00 P.M.

Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E604

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B : SPORTS PHYSIOTHERAPY

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Discuss the mechanism, management and rehabilitation of a professional football player suffering from medial meniscal injury. (3+6+6)

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Discuss sports injury prevention for the differently abled population.
3. What are the effects of exercise on various hormones in a female body?
4. List out the health and skill related fitness tests in a basket ball player and write about any **two**. (2+5)
5. Discuss the role of sports nutrition in competitive wrestlers.
6. Discuss with one example the importance of sports specific fitness training.

ENTRANCE TEST FOR DOCTOR OF PHILOSOPHY (Ph.D.)

Date: 23rd August 2024

Time: 2.00 P.M. to 5.00 P.M.

Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E605

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B : ONCOLOGY PHYSIOTHERAPY

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Explain aqua lymphatic therapies in management of lymphedema.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Hydrotherapy following lung cancer surgeries.
3. Explain radiotherapy complications in cancer patients.
4. Explain palliative care for systemic cancer patients.
5. Evidence based physiotherapy practice in bone tumors.
6. Gene therapy and its advantages in cancer patients.

ENTRANCE TEST FOR DOCTOR OF PHILOSOPHY (Ph.D.)

Date: 23rd August 2024

Time: 2.00 P.M. to 5.00 P.M.

Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E606

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B : MUSCULOSKELETAL PHYSIOTHERAPY

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Discuss in detail the assessment and rehabilitation of an athlete who has undergone ACL reconstruction. Add a note on criteria to return to sports.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Discuss management of pain in musculoskeletal conditions.
3. Recent advances and controversies in orthopaedic physiotherapy.
4. Discuss on field and off field sports injury physiotherapy management.
5. Discuss role of physiotherapy in ankle instability.
6. Tapping technique and its use in musculoskeletal conditions.

ENTRANCE TEST FOR DOCTOR OF PHILOSOPHY (Ph.D.)

Date: 23rd August 2024

Time: 2.00 P.M. to 5.00 P.M.

Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E701

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B : M.Sc. BIOTECHNOLOGY

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. What is hybridoma technology? Explain the process of hybridoma technology.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Define nosocomial infections. Explain the various methods of prevention of nosocomial infection.
3. Explain molecular mechanism of drug resistance.
4. Explain the role DNA modifying enzymes in genetic engineering.
5. Write salient features of cyclin dependent protein kinases (CDKs).
6. Define central tendency. Explain method of presentation.

ENTRANCE TEST FOR DOCTOR OF PHILOSOPHY (Ph.D.)

Date: 23rd August 2024

Time: 2.00 P.M. to 5.00 P.M.

Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E702

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS: 1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory): 5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B : M.Sc. APPLIED GENETICS

LONG ESSAY QUESTIONS: 1 X 15 = 15

1. Define DNA replication. Discuss transcription in detail with a neat labelled diagram.

SHORT ESSAY QUESTIONS (All are compulsory): 5 X 7 = 35

2. Classify on innate and adaptive immunity with suitable examples.
3. Describe the types of mutations.
4. Discuss Hershey & Chase experiment with illustration.
5. Explain thin layer & high performance liquid chromatographic technique with a neat labelled diagram.
6. Write and illustrate the steps involved in polymerase chain reaction with diagram.

ENTRANCE TEST FOR DOCTOR OF PHILOSOPHY (Ph.D.)

Date: 23rd August 2024

Time: 2.00 P.M. to 5.00 P.M.

Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E703

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B : M.Sc. Chemistry

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Describe the replication of DNA as occurring in eukaryotic organisms. Add a note on inhibitors of replication.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Discuss the principle & application of atomic absorption spectroscopy.
3. Describe the importance of dietary fibres.
4. Discuss the biochemical changes in respiratory acidosis and its three causes / conditions leading to respiratory acidosis.
5. List the sources, RDA, functions and deficiency manifestations of vitamin B12.
6. List the essential fatty acids and discuss their functions.

ENTRANCE TEST FOR DOCTOR OF PHILOSOPHY (Ph.D.)

Date: 23rd August 2024

Time: 2.00 P.M. to 5.00 P.M.

Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E704

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B : M.Sc. Hospital Administration

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Discuss the term cost and management accounting. Discuss its role and function in managing a tertiary care hospital. Add a note on cost centres in a hospital. (3+8+4)

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Discuss the role and function of public private partnership in health care sector with suitable examples.
3. Discuss the role and function of various social development program in geriatric care in a society.
4. Discuss the term competition. Enumerate various types of competition with suitable examples. Add a note on economics of bulk purchase.
5. Discuss the merits and demerits of holistic approach towards health care sector.
6. Discuss the term insurance. Discuss the merits and demerits various types of health insurance to make cashless transfer effective in India.

ENTRANCE TEST FOR DOCTOR OF PHILOSOPHY (Ph.D.)

Date: 23rd August 2024

Time: 2.00 P.M. to 5.00 P.M.

Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E705

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write an essay on preparation of Research Protocol for any health issue.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write the steps of thesis writing.
3. Define Standard Operation Procedures (SOP).
4. Describe steps of selecting title and objectives of a particular research with suitable examples.
5. Discuss problems that lead to unethical behaviour in research publications.
6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B : M.Sc. BIostatistics

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Enlist **five** differences between parametric and non-parametric tests of significance. Discuss testing equally of **two** means and **two** variances with example.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Discuss multiple linear regression analysis with applications in medical research.
3. Discuss concept and measures of mortality with example.
4. Define central limit theorem. Explain the Fisher's Z-transformations with role and uses in data analysis.
5. Discuss probability sampling methods advantages and disadvantages.
6. Discuss the methods in population projections and utility.

ENTRANCE TEST FOR DOCTOR OF PHILOSOPHY (Ph.D.)

Date: 23rd August 2024

Time: 2.00 P.M. to 5.00 P.M.

Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E706

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

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SECTION B : M.Sc. Pharmaceutical Medicine

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Explain the roles & responsibilities of all members of Institutional Ethics Committee as per schedule "Y" and corum requirements as per new NDCT guidelines.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Explain the different steps involved in administering audio-video consenting in phase II clinical trial.
3. Give a classical example for drug-drug, drug-food and drug-disease interaction.
4. What are common drug related problems with anti-diabetic drugs?
5. What are the principles of extended stability testing of a pharmaceutical formulation?
6. What are roles and responsibilities of CRO & SMO?

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Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

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4. Describe steps of selecting title and objectives of a particular research with suitable examples.
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6. Describe selective reporting and misrepresentation of data in research publications.

SECTION B : Homoeopathy Materia Medica

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Define materia medica and homoeopathic materia medica. Explain the sources of homoeopathic materia and describe the various types of homoeopathic materia medica in detail.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Define Nosodes. Describe the classification, indications and contraindications of Nosodes.
3. Write the clinical indications – ginseng, granatum punica, guaiacum off and yucca felam.
4. Compare and contrast – chenopodium, bufo rana, theridion, asteris rubens in neurological affections.
5. Describe the group characteristics of halogens. Compare the respiratory affections of bromum and spongia tosta.
6. Write the therapeutic utility of aelianthus, copaiva, euphorbium & lathyrus sativus.