

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

Date: 21st September 2023

Time: 2.00 P.M. 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. Describe in detail step-by-step procedure used for thesis writing.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write short note on Plagiarism in research publications.
3. Write a hypothetical title related to health issue along with two objectives.
4. Describe the differences between Case Control and Randomized Control Trial.
5. Describe the Title – Consistency with research questions and objectives with suitable examples.
6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B: OPTOMETRY

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Discuss ectatic conditions of cornea. Add a note on keratoconus classification, clinical features and management.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Orthokeratology.
3. Specular microscopy.
4. Pediatric low vision care.
5. Role of optometrist in community ophthalmic care.
6. Discuss ARMD.

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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. Describe in detail step-by-step procedure used for thesis writing.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write short note on Plagiarism in research publications.
3. Write a hypothetical title related to health issue along with two objectives.
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5. Describe the Title – Consistency with research questions and objectives with suitable examples.
6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B: MPH

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Define research. Explain steps to frame objectives. Add a note on health system research. (2+5+8)

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write a detail about hypothesis and importance of confidence interval.
3. Millennium development goals.
4. Role of independent ethics committee in public health research.
5. Principles of disaster preparedness.
6. Define fertility. What are the strategies implemented in India to control population growth.

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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. Describe in detail step-by-step procedure used for thesis writing.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

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3. Write a hypothetical title related to health issue along with two objectives.
4. Describe the differences between Case Control and Randomized Control Trial.
5. Describe the Title – Consistency with research questions and objectives with suitable examples.
6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B: BIOCHEMISTRY

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Explain in detail the various types of enzyme inhibition. Add a note on specificity of enzymes.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Discuss in detail DNA replication. Add a note on DNA repair mechanism. (7+3)
3. Explain electrophoresis under the following headings:
a. Principle b. Types c. Applications
4. Discuss in detail about gluconeogenesis. Add a note on Cori's cycle. (8+2)
5. Describe in detail the metabolic changes starvation and fed state. (5+5)
6. Discuss about different mechanics regulating blood pH.

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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. Describe in detail step-by-step procedure used for thesis writing.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

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3. Write a hypothetical title related to health issue along with two objectives.
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5. Describe the Title – Consistency with research questions and objectives with suitable examples.
6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B: PATHOLOGY

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Discuss approach to a case of bleeding disorder with appropriate coagulation tests.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Discuss the Principle, procedure and applications of Direct Comb's test (DCT)
3. Classify Thyroid tumours with a note on follicular neoplasms
4. Classify Diabetes Mellitus. Write the laboratory diagnosis for Diabetes Mellitus
5. Discuss the Indications and Analysis of peritoneal fluid
6. Discuss tumour markers

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SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Describe in detail step-by-step procedure used for thesis writing.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

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3. Write a hypothetical title related to health issue along with two objectives.
4. Describe the differences between Case Control and Randomized Control Trial.
5. Describe the Title – Consistency with research questions and objectives with suitable examples.
6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B : COMMUNITY MEDICINE

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Define “Epidemiology”. Enumerate epidemiological study design. Explain the steps of randomized clinical trial for the approval of a new drug with a suitable example along with ethical issues.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Briefly discuss about role of nutrition rehabilitation centre in management of severe acute malnutrition (SAM) child in India.
3. Briefly discuss about effects of indoor air pollution human health with and its prevention control.
4. Discuss briefly about “Indian Public Health Standards’ (IPHS) for primary health centre.
5. Briefly discuss about community health needs survey for non-communicable diseases in an urban slum population of Belagavi city.
6. Critically appreciate merits and demerits of National Health Policy – 2017 of India.

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Q.P. CODE : E106

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SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Describe in detail step-by-step procedure used for thesis writing.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write short note on Plagiarism in research publications.
3. Write a hypothetical title related to health issue along with two objectives.
4. Describe the differences between Case Control and Randomized Control Trial.
5. Describe the Title – Consistency with research questions and objectives with suitable examples.
6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B : FORENSIC MEDICINE

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Define inquest. Describe the types of inquest. Mention the differences (5+5+5) between police inquest and magistrate inquest.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Describe suggilation and its medicolegal importance.
3. Describe battered baby syndrome.
4. Describe the chronic mercury poisoning and its medicolegal importance.
5. Describe DNA finger printing.
6. Describe poison information centre.

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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. Describe in detail step-by-step procedure used for thesis writing.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write short note on Plagiarism in research publications.
3. Write a hypothetical title related to health issue along with two objectives.
4. Describe the differences between Case Control and Randomized Control Trial.
5. Describe the Title – Consistency with research questions and objectives with suitable examples.
6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B : ORAL PATHOLOGY & MICROBIOLOGY

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Discuss role of microorganism in causing dental caries. Describe sequelae of dental caries.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Describe pathogenesis of adenomatoid odontogenic tumor.
3. Write differences between pemphigus and pemphigoid.
4. Describe formation of giant cells.
5. Molecular markers used for assessing malignant potential of premalignant disorders.
6. Histopathology of cylindroma.

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

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. Describe in detail step-by-step procedure used for thesis writing.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write short note on Plagiarism in research publications.
3. Write a hypothetical title related to health issue along with two objectives.
4. Describe the differences between Case Control and Randomized Control Trial.
5. Describe the Title – Consistency with research questions and objectives with suitable examples.
6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B : PEDIATRICS & PREVENTIVE DENTISTRY

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Define and classify space maintainer. Enumerate the factors to be considered while giving space maintainer. Write in detail as out band & loop space maintainer.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Management of special children in dental office.
3. Management of avulsed maxillary central in visor in children.
4. Uses of fluorides in the prevention of caries in children.
5. Define rampant carries. Discuss etiology clinical features, diagnosis and management of rampant caries in children.
6. Explain role of pedodontist in the management of children with child abuse neglect.

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

Date: 21st September 2023

Time: 2.00 P.M. 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. Describe in detail step-by-step procedure used for thesis writing.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

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3. Write a hypothetical title related to health issue along with two objectives.
4. Describe the differences between Case Control and Randomized Control Trial.
5. Describe the Title – Consistency with research questions and objectives with suitable examples.
6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B : PHARMACOLOGY

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Describe the preclinical screening of new drug for anti diabetic activity using invivo, invitro experimental model. Discuss any two models in detail.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Classify receptors. Discuss in detail their role in intercellular and intracellular signaling pathway.
3. Discuss the physiological and pathological role of histamine and prostaglandins.
4. Describe the factors affecting drug absorption and drug metabolism. Justify with suitable examples.
5. Discuss the role of NMR spectroscopy in drug discovery process.
6. Describe the application of chronotherapy in diabetes and asthma.

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

Date: 21st September 2023

Time: 2.00 P.M. 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. Describe in detail step-by-step procedure used for thesis writing.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

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3. Write a hypothetical title related to health issue along with two objectives.
4. Describe the differences between Case Control and Randomized Control Trial.
5. Describe the Title – Consistency with research questions and objectives with suitable examples.
6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B : PHARMACEUTICS

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. What are rate controlled drug delivery systems? Classify and explain activation modulated drug delivery systems in detail.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Explain concept and parameters of optimization techniques in formulation development. Add a note on response surface method.
3. Explain the regulatory requirement for product approval. Add a note on ICH guidelines.
4. Describe in detail preparation & applications of monoclonal antibodies.
5. Discuss various methods for assessing bioavailability, bioequivalence studies.
6. Explain computer simulations in pharmaco kinetics and pharmacodynamics. Add a note on computers in clinical development.

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Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E303

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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]

LONG ESSAY QUESTIONS:

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SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

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5. Describe the Title – Consistency with research questions and objectives with suitable examples.
6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B : PHARMACEUTICAL CHEMISTRY

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Explain principle apparatus, instrumentation and pharmaceutical applications of HPLC and gass chromatography.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write various approaches of prodrug-design.
3. Explain structural characterization of penicillin & morphine using IR, ¹H – NMR ¹³C-NMR.
4. Write mass fragmentation and its rules.
5. Explain microwave assisted and ultrasound assisted reactions.
6. Write various steps involved in molecular docking studies.

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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. Describe in detail step-by-step procedure used for thesis writing.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write short note on Plagiarism in research publications.
3. Write a hypothetical title related to health issue along with two objectives.
4. Describe the differences between Case Control and Randomized Control Trial.
5. Describe the Title – Consistency with research questions and objectives with suitable examples.
6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B : PHARMACEUTICAL QUALITY ASSURANCE

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Describe the importance of preformulation studies and in brief highlight of methods to improve solubility of drugs.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Explain principle, instrumentation and pharmaceutical application of U.V
3. Discuss the various factors influencing the plant layout.
4. Discuss the issues facing modern drug packaging.
5. Discuss the advantages, scope & types of validation.
6. Explain the role of quality systems and audits in pharmaceutical manufacturing environment.

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Date: 21st September 2023

Time: 2.00 P.M. 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

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SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

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5. Describe the Title – Consistency with research questions and objectives with suitable examples.
6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B : PHARMACOGNOSY

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write in detail about conservation of medicine plants. Explain Ex-situ and In-situ conservation of medicinal plants.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write principle of thin layer chromatography.
3. Write in brief biosynthetic pathway of glycosides.
4. Discuss quality assurance in herbal drug products.
5. Explain applications of fermentations technology pharmaceuticals.
6. Give analytical profile of curcuma longa.

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

Date: 21st September 2023

Time: 2.00 P.M. 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. Describe in detail step-by-step procedure used for thesis writing.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

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3. Write a hypothetical title related to health issue along with two objectives.
4. Describe the differences between Case Control and Randomized Control Trial.
5. Describe the Title – Consistency with research questions and objectives with suitable examples.
6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B : PHARMACY PRACTICE

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Enlist and explain the roles & responsibilities of a clinical pharmacist; community pharmacist and hospital pharmacist

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Explain the significance of pharmacist interventions in practice
3. What is the structure and significance of patient past medication, history in drug therapy management
4. What are the different steps and precautions to be adopted during intravenous admixture preparations
5. Explain roles and responsibilities of all members of institutional committee as per NDCT 2019 guidelines
6. Enumerate the general prescribing guidelines for geriatric & pediatric patients

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

Date: 21st September 2023

Time: 2.00 P.M. 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. Describe in detail step-by-step procedure used for thesis writing.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

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3. Write a hypothetical title related to health issue along with two objectives.
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6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B : SHALAKYA TANTRA

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Define Dhrushthi with various anatomical correlations write about classification of Dhrushthigata rogas according to Sushruta and Management of Kaphaja Linganasha

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Explain in detail about Nasa hi Shiraso Dwaram and its importance in treating Nasagata Rogas.
3. Discuss in detail about importance of Karna Poorana in Karnagata Rogas with its contra indications.
4. Write in detail about Saptangas of Mukhas, Classify Mukhagata Rogas according to their Upangas according to Sushruta and explain Tundikeri laxanas
5. Examination of Ardhavabhedaka case with applied therapeutic procedures Shamana Chikitsa.
6. Application of Rakta Mokshana Chikitsa in Netragata vikaras.

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

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. Describe in detail step-by-step procedure used for thesis writing.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

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6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B : RASASHASTRA & BHAISHAJYA KALPANA

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Define Jarana and explain in detail about Murchana and Marana. (3+6+6)

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Describe in detail with suitable example about Amritikarana and Lohitikarana. (3.5+3.5)
3. Write critical review on Rasaratnasamuchhaya.
4. Write in detail about Drug and Cosmetics act -1940 and Rules - 1945. (3.5+3.5)
5. Discuss role of Anupana and Pathya in treatment. (3.5+3.5)
6. Write ingredients, method of preparation, dose and indications of Pravalapanchamrita rasa and Kumaryasava. (3.5+3.5)

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Max. Marks: 100

Q.P. CODE : E403

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SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

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5. Describe the Title – Consistency with research questions and objectives with suitable examples.
6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B : DRAVYAGUNA

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Critical analysis of Gurvaadi Gunas in day-to-day clinical practices with example.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Explain Extra pharmacopial drugs & Controversial drugs.
3. Brief notes on Pharmaco Vigilance & PharmacoGenomics
4. Describe fundamental principles of Drug action.
5. Experimental Pharmacology & Clinical Pharmacology.
6. Critical notes on Tikta Rasa & Amla Rasa.

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Q.P. CODE : E404

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SECTION A : RESEARCH METHODOLOGY

[COMMON PAPER]

LONG ESSAY QUESTIONS:

1 X 15 = 15

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SHORT ESSAY QUESTIONS (All are compulsory):

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5. Describe the Title – Consistency with research questions and objectives with suitable examples.
6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B : SWASTHVRITTA

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Define ritucharya. Explain critical understanding and application of ritu shodhana in disease prevention. (5+10)

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Discuss the impact of viruddha ahara on health.
3. Elaborate the role of swastha writta in mental health.
4. Discuss application of host defenses in swastha writta practice.
5. Discuss the role of ayurveda in immunization programmes.
6. Explain ayurveda dietary management of diabetes mellitus.

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Q.P. CODE : E405

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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. Describe in detail step-by-step procedure used for thesis writing.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

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4. Describe the differences between Case Control and Randomized Control Trial.
5. Describe the Title – Consistency with research questions and objectives with suitable examples.
6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B : KAYACHIKITSA

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Define shada vidha upakrama. Explain langhana chikitsa in detail. Give (6+5+4) evidences for application of langhana chikitsa in various diseases.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Explain chikitsa sootra of shwasa and elaborate recent evidences in ayurveda engagement of swasa.
3. Elaborate the importance of pathya apathy in current practice.
4. Elaborate chikitsa sootra of atisara and discuss avasthika chikitsa of atisara.
5. Discus ayurveda understanding and management of COVID-19.
6. Enumerate the recent advances in ayurveda management of diabetes mellitus.

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

Date: 21st September 2023

Time: 2.00 P.M. 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. Describe in detail step-by-step procedure used for thesis writing.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write short note on Plagiarism in research publications.
3. Write a hypothetical title related to health issue along with two objectives.
4. Describe the differences between Case Control and Randomized Control Trial.
5. Describe the Title – Consistency with research questions and objectives with suitable examples.
6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B : AGAD TANTRA

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Define Garavisha, write its Laxana and Chikitsa. Discuss its contemporary relevance with suitable examples

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Classical and contemporary examination methods of Visha
3. Write Toxic compounds of arsenic, discuss acute and chronic poisoning of Arsenic.
4. Discuss alakrkavisha and brief rabbis poisoning.
5. Classify injury and medico legal aspects.
6. Discuss classical and contemporary aspects of drug interaction with examples.

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

Date: 21st September 2023

Time: 2.00 P.M. 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. Describe in detail step-by-step procedure used for thesis writing.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write short note on Plagiarism in research publications.
3. Write a hypothetical title related to health issue along with two objectives.
4. Describe the differences between Case Control and Randomized Control Trial.
5. Describe the Title – Consistency with research questions and objectives with suitable examples.
6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B : PANCHAKARMA

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Brief types of Niruha Basti, explain it's mode of action and basti vyapat chikitsa. (5+5+5)

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Explain the application of kshira and ksharabasti in different diseases
3. Enumerate the utility and application of Shastika shali panda sweda and patra panda sweda.
4. Elaborate the role of physiotherapy and panchakarma procedures in Paralytical disorders.
5. Critically analyse the indications and contraindications of each type of Nasya
6. Elaborate on the Vamana karmukata along with Pharamco dynaomics of vamana karma.

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

Date: 21st September 2023

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

Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E408

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. Describe in detail step-by-step procedure used for thesis writing.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write short note on Plagiarism in research publications.
3. Write a hypothetical title related to health issue along with two objectives.
4. Describe the differences between Case Control and Randomized Control Trial.
5. Describe the Title – Consistency with research questions and objectives with suitable examples.
6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B : SHALYA TANTRA

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Criticize the pradhanata of kshara, method of preparation, types with their indications and design one new research plan concern to anorectal disorders using different modalities of Kshara.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Correlate the principles of plastic/reconstructive from Sandhana concept of Acharya Sushruta.
3. Critically analyze the treatment of Niruddhaprakasha
4. Describe classification, clinical features and management of Mutraghata
5. Discuss the concept Agnikarma mentioned by Acharya Sushruta.
6. Write the causes, types and management of Kotha.

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

Date: 21st September 2023

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

Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E409

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. Describe in detail step-by-step procedure used for thesis writing.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write short note on Plagiarism in research publications.
3. Write a hypothetical title related to health issue along with two objectives.
4. Describe the differences between Case Control and Randomized Control Trial.
5. Describe the Title – Consistency with research questions and objectives with suitable examples.
6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B : KRIYA SHARIRA

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Discuss physiology of agni, its classification and functions with metabolism

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Describe the Actions of Growth Hormone. Discuss the disorders caused by hyper secretion of Anterior Pituitary Gland.
3. Explain four types of Nerves on the basis of the function. Enumerate peripheral and autonomous nervous system.
4. Explain Water Soluble Vitamins in brief with reference to Sources, Daily requirement and Discuss the deficiency manifestations.
5. Discuss the critical analysis of Anuvanshiki(Genetics) and prakri.
6. Define Hemorrhage. Discuss the Compensatory Effects of Hemorrhage.

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

Date: 21st September 2023

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

Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E410

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. Describe in detail step-by-step procedure used for thesis writing.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write short note on Plagiarism in research publications.
3. Write a hypothetical title related to health issue along with two objectives.
4. Describe the differences between Case Control and Randomized Control Trial.
5. Describe the Title – Consistency with research questions and objectives with suitable examples.
6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B : ROGA NIDANA

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Define Nidana panchaka and critically analyse the role upashaya in current practice. (5+10)

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. List the emerging diagnostic tools and their application in Ayurveda
3. List all the laboratory investigations applicable to disease Pandu and elaborate their Ayurveda understanding.
4. Elaborate on classifications of Neoplasia in Ayurveda and contemporary science
5. Explain the application of Vikara vighat bhavabhava prativishes in current practice
6. Critically analyse the scientific evidences of Mootra pariksha as mentioned in Ayurveda science

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

Date: 21st September 2023

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

Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E411

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. Describe in detail step-by-step procedure used for thesis writing.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write short note on Plagiarism in research publications.
3. Write a hypothetical title related to health issue along with two objectives.
4. Describe the differences between Case Control and Randomized Control Trial.
5. Describe the Title – Consistency with research questions and objectives with suitable examples.
6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B : RACHANA SHARIRA

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Explain the anatomy of Shatchakras and its practical utility in Shaarira vigyan

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Explain the knowledge of advancement in grabha vikar (Teratology).
3. Explain four types of Nerves on the basis of the function. Enumerate peripheral and autonomous nervous system with examples.
4. Explain anatomy of Eye and discuss its various applied anatomy.
5. Explain the preventative measures of Marma Abhighat and write its importance in shalya tantra.
6. Discuss laxanas of Sadhyah Grihita garbha, Ritumati and Asanna prasavadi stages.

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

Date: 21st September 2023

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

Time: 3 Hours

Max. Marks: 100

Q.P. CODE : E412

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. Describe in detail step-by-step procedure used for thesis writing.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write short note on Plagiarism in research publications.
3. Write a hypothetical title related to health issue along with two objectives.
4. Describe the differences between Case Control and Randomized Control Trial.
5. Describe the Title – Consistency with research questions and objectives with suitable examples.
6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B : KAUMARBRITYA

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Explain in detail Bala grahas and their management with modern co relation (8+7)

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Explain dhupana and rakshakarma with clinical application (3+4)
3. Write significant contributions of Arogyarakshakalpadruma
4. Write in detail management of chardi in children
5. Describe national programs related children
6. Explain importance of desha, prakruti and satmyata in bala (2+2.5+2.5)

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

Date: 21st September 2023

Time: 2.00 P.M. 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. Describe in detail step-by-step procedure used for thesis writing.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write short note on Plagiarism in research publications.
3. Write a hypothetical title related to health issue along with two objectives.
4. Describe the differences between Case Control and Randomized Control Trial.
5. Describe the Title – Consistency with research questions and objectives with suitable examples.
6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B : MEDICAL SURGICAL NURSING

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Explain the pathophysiology and nursing management of CCF (Congestive Cardiac Failure)

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Explain Health education for Peptic Ulcer.
3. Discuss the Principles, policies and design of Critical Care units
4. Explain the nursing management of patient undergone Kidney Transplantation
5. Explain the nursing management of patient undergone craniotomy.
6. Explain Cognitive aspects of ageing

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

Date: 21st September 2023

Time: 2.00 P.M. 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. Describe in detail step-by-step procedure used for thesis writing.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write short note on Plagiarism in research publications.
3. Write a hypothetical title related to health issue along with two objectives.
4. Describe the differences between Case Control and Randomized Control Trial.
5. Describe the Title – Consistency with research questions and objectives with suitable examples.
6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B : NURSING IN CHILD HEALTH

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. a) Discuss the recent trends and issues of Child Health Nursing in India (8+7)
b) Explain the standards of Pediatric Nursing practice

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Nutritional assessment of under five child
3. Enumerate on dehydration in children and its management
4. Legal implications in pediatric nursing
5. Criteria for dose calculation in infants and children
6. Explain concept and objectives of IMNCI

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

Date: 21st September 2023

Time: 2.00 P.M. 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. Describe in detail step-by-step procedure used for thesis writing.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write short note on Plagiarism in research publications.
3. Write a hypothetical title related to health issue along with two objectives.
4. Describe the differences between Case Control and Randomized Control Trial.
5. Describe the Title – Consistency with research questions and objectives with suitable examples.
6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B : NURSING IN OBG

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Role of a midwife as counselor to adolescents women and families on issues pertaining to pregnancy, labour and postpartum

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Minor disorders of pregnancy and its nursing management
3. National health and family welfare programmes related to maternal and child health
4. Explain obstetric emergencies approved by the MOHFW
5. Explain the role of a midwifery nurse practitioner in management of menopause
6. Describe the 3rd stage physiology of labor and nursing management

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

Date: 21st September 2023

Time: 2.00 P.M. 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. Describe in detail step-by-step procedure used for thesis writing.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write short note on Plagiarism in research publications.
3. Write a hypothetical title related to health issue along with two objectives.
4. Describe the differences between Case Control and Randomized Control Trial.
5. Describe the Title – Consistency with research questions and objectives with suitable examples.
6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B : NURSING IN PSYCHIATRIC

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Define therapeutic communication and explain the phases and techniques of therapeutic communication

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Explain the concept of Hildegard E Peplau model
3. Discuss the nursing management of patient with depression
4. Enumerate the components of mental status examination
5. Discuss mental retardation
6. Discuss the treatment modalities for substance use disorders

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

Date: 21st September 2023

Time: 2.00 P.M. 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. Describe in detail step-by-step procedure used for thesis writing.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write short note on Plagiarism in research publications.
3. Write a hypothetical title related to health issue along with two objectives.
4. Describe the differences between Case Control and Randomized Control Trial.
5. Describe the Title – Consistency with research questions and objectives with suitable examples.
6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B : ORTHOPEDICS PHYSIOTHERAPY

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Explain in detail the Pilates concept and principle with its use in musculoskeletal conditions.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. On field sports injuries assessment.
3. Soft tissue manipulation techniques and its uses in orthopaedic condition.
4. Isokinetic training in musculoskeletal conditions.
5. Explain exercise planning and prescription in subject with low back pain.
6. Lower crossed syndrome with corrective measures.

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

Date: 21st September 2023

Time: 2.00 P.M. 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. Describe in detail step-by-step procedure used for thesis writing.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write short note on Plagiarism in research publications.
3. Write a hypothetical title related to health issue along with two objectives.
4. Describe the differences between Case Control and Randomized Control Trial.
5. Describe the Title – Consistency with research questions and objectives with suitable examples.
6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B : NEUROPHYSIOTHERAPY

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. How you will manage a case of head injury in which a nail is entered in the skull and placed at motor area. Write about pre and post operative assessment & management of the same.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. How you will perform lee Silverman voice treatment for a Parkinson's patient.
3. What is emotional intelligence? Does emotional intelligence plays any role in well-beings of a patient.
4. How you will Train paraplegic for playing volleyball, explain the complete procedure.
5. How you will Train bed mobility for stork patient using giraln pattern of PNF?
6. How you will manage a case of swallowing disorder use motor releasing process, also mention evidence for the same.

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

Date: 21st September 2023

Time: 2.00 P.M. 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. Describe in detail step-by-step procedure used for thesis writing.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write short note on Plagiarism in research publications.
3. Write a hypothetical title related to health issue along with two objectives.
4. Describe the differences between Case Control and Randomized Control Trial.
5. Describe the Title – Consistency with research questions and objectives with suitable examples.
6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B : PEADIATRIC PHYSIOTHERAPY

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Write the assessment and management of high-risk infants in neonatal ICU.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Discuss Motor development assessment scale for paediatric disorders
3. Write the theories of motor learning and their clinical implications
4. Explain the embryological development of Central nervous system
5. Explain the perceptual disorders commonly seen in paediatric disorders
6. Write the post- operative management for spastic cerebral palsy.

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

Date: 21st September 2023

Time: 2.00 P.M. 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. Describe in detail step-by-step procedure used for thesis writing.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write short note on Plagiarism in research publications.
3. Write a hypothetical title related to health issue along with two objectives.
4. Describe the differences between Case Control and Randomized Control Trial.
5. Describe the Title – Consistency with research questions and objectives with suitable examples.
6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B : M.Sc. BIOTECHNOLOGY

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. What is gene expression? How it is measured in DNA science, explain RT-PCR test.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Explain transmission electron microscopy.
3. What is MALDI – T of, explain role of maldi-T of.
4. What is anti –sense RNA technology? Explain the importance.
5. What are pre-biotics and probiotics. Explain their importance in health.
6. What are chromosomal abnormalities? Explain molecular cause of chromosomal abnormalities.

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

Date: 21st September 2023

Time: 2.00 P.M. 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. Describe in detail step-by-step procedure used for thesis writing.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write short note on Plagiarism in research publications.
3. Write a hypothetical title related to health issue along with two objectives.
4. Describe the differences between Case Control and Randomized Control Trial.
5. Describe the Title – Consistency with research questions and objectives with suitable examples.
6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B : M.Sc. PROSTHETICS & ORTHOTICS

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Explain concept of follower load with respect to spinal orthotics.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. What is Bionic Hand? Explain the principle design and construction.
3. Explain the concept of Functional Fracture Bracing with two suitable examples.
4. Define Prehension. Explain various prehensile grips with neat diagrams.
5. What are the different types of Cable Control Systems in UE Prosthetics?
6. What is Rotator Cuff Injury? Explain the Orthotic Management.

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

Date: 21st September 2023

Time: 2.00 P.M. 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. Describe in detail step-by-step procedure used for thesis writing.

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

2. Write short note on Plagiarism in research publications.
3. Write a hypothetical title related to health issue along with two objectives.
4. Describe the differences between Case Control and Randomized Control Trial.
5. Describe the Title – Consistency with research questions and objectives with suitable examples.
6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B : M.Sc. GENETICS

LONG ESSAY QUESTIONS: 1 X 15 = 15

1. Explain fluid-mosaic model of plasma membrane and explain the structure with functions.

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

2. Explain the role of extra cellular matrix.
3. What are G-protein complex? Explain the importance.
4. What is C value paradox? Explain the importance of C-value paradox.
5. What is RNA splicing? Write its molecular importance.
6. What are mobile genetic elements? Explain.

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

Date: 21st September 2023

Time: 2.00 P.M. 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. Describe in detail step-by-step procedure used for thesis writing.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write short note on Plagiarism in research publications.
3. Write a hypothetical title related to health issue along with two objectives.
4. Describe the differences between Case Control and Randomized Control Trial.
5. Describe the Title – Consistency with research questions and objectives with suitable examples.
6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B : M.Sc. STATISTICS

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Define hypothesis and its types. Describe assumption and procedure of independent t-test.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Describe uniformly most powerful tests with suitable example.
3. What is difference between p-value and level of significance? Write application of p-value in research.
4. Describe binomial distribution with suitable example.
5. Define censoring and its types with example.
6. What is stochastic process? Describe briefly classification of general stochastic process.

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

Date: 21st September 2023

Time: 2.00 P.M. 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. Describe in detail step-by-step procedure used for thesis writing.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Write short note on Plagiarism in research publications.
3. Write a hypothetical title related to health issue along with two objectives.
4. Describe the differences between Case Control and Randomized Control Trial.
5. Describe the Title – Consistency with research questions and objectives with suitable examples.
6. Discuss authorship and contributor ship in research publication with suitable example.

SECTION B : M.A PSYCHOLOGY

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Define research. Explain the steps involved in research process

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Explain Maslow's hierarchy of motives
3. Define hypothesis. Describe types of hypothesis
4. Give brief information on different non-parametric tests
5. Discuss DSM criteria in special context to child psychopathology
6. Define personality. Describe methods of assessing personality.

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SECTION B : DENTAL SURGERY IN PUBLIC HEALTH

LONG ESSAY QUESTIONS:

1 X 15 = 15

1. Define indices, describe in detail various indices used in epidemiology and dental clinical trial.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 7 = 35

2. Add a note on consort guidelines.
3. Explain the role of NGO in creating oral health awareness.
4. Relate the relation between oral health and culture.
5. Role of nutrition in oral health.
6. Enumerate principle of health education.