



**CBCS CURRICULUM OF
POST GRADUATE DIPLOMA IN MEDICINAL
PLANTS PROGRAMME**

SUBJECT CODE = PGDMP



Members of Board of Studies of CBCS Syllabus as per Guidelines of the Ranchi University, Ranchi.

Syllabus Modified by Board of Studies in Post Graduate Diploma in Medicinal Plants, Ranchi University, Ranchi (w.e.f. 2022 onwards)

Sl. No.	Name	
1.	Dr. Kanul Kandi Director University Professor & Head University Department of Botany Ranchi University, Ranchi	Chairperson <i>Kandi</i> 26.3.2022
2.	Dr. N. K. Dubey Professor & Head Department of Botany B.H.U., Varanasi	External Expert
3.	Dr. Anwar Mallick Professor (Retd.) Department of Botany V. B. U., Hazaribag	External Expert <i>Anwar Mallick</i> 26/3/22
4.	Dr. A. K. Srivastava University Professor (Retd.) University Department of Botany Ranchi University, Ranchi	Alumni <i>A. K. Srivastava</i> 26/3/22
5.	Dr. Latika Sharan Associate Professor University Department of Botany Ranchi University, Ranchi	Member <i>Latika Sharan</i> 26.3.2022
6.	Dr. Anita Mehta Associate Professor University Department of Botany Ranchi University, Ranchi	Member <i>Anita Mehta</i> 26.03.22
7.	Dr. Anil Kumar Associate Professor University Department of Botany Ranchi University, Ranchi	Member <i>Anil Kumar</i> 26/3/22
8.	Dr. Radha Krishna Jha Assistant Professor (SG) University Department of Botany Ranchi University, Ranchi	Member <i>Radha Krishna Jha</i> 26/3/22
9.	Dr. Smrity Prabha Assistant Professor University Department of Botany Ranchi University, Ranchi	Member <i>Smrity Prabha</i> 26/3/22
10.	Dr. Ladi Rani Assistant Professor University Department of Botany Ranchi University, Ranchi	Member <i>Ladi Rani</i> 26.3.2022
11.	Dr. Sameer Gunjan Lakra Assistant Professor University Department of Botany Ranchi University, Ranchi	Member <i>Sameer Gunjan Lakra</i> 26/03/2022
12.	Dr. Shweta Nag Assistant Professor University Department of Botany Ranchi University, Ranchi	Member <i>Shweta Nag</i> 26/03/22
13.	Dr. Binod Kumar Mahato Assistant Professor University Department of Botany Ranchi University, Ranchi	Member <i>Binod Kumar Mahato</i> 26/03/2022

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S.No.

Members of Board of Studies

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Abhinav
26/3/22

Shweta Neg
26/03/22

Smrity Prabhu
26/3/22

Sanjay Gungun
26/03/22

Rishi
26/3/22

Bhaskar
26/03/22

Sharan
26.3.22

Ladly Devi
26/3.2022

Kaushik
26.3.22

Table AI-2.1 Semester wise Examination Structure for Mid Sem & End Sem Examinations:

Sem	Core, SE/ GE/ DC/ EC & Compulsory FC Courses				Examination Structure		
	Paper	Paper Code	Credit	Name of Paper	Mid Semester Evaluation (F.M.)	End Semester Evaluation (F.M.)	End Semester Practical/ Viva (F.M.)
I	Core Course	CC PGDMP 101	5	Plant Taxonomy and Cultivation of Medicinal Plants	30	70	---
	Core Course	CC PGDMP 102	5	Plant Anatomy and Biometry	30	70	---
	Core Course	CC PGDMP 103	5	Phytochemistry	30	70	---
	Practical's on Core	CP PGDMP 104	5	Practical-I	---	---	100
II	Core Course	CC PGDMP 201	5	Ethnobotany	30	70	---
	Core Course	CC PGDMP 202	5	Pharmacognosy and Applied Pharmacology	30	70	---
	Practical's on Core	CP PGDMP 203	5	Practical-II	---	---	100
	PROJECT	PR PGDPMP 204	5	Project Work	---	---	100

Akhilastava
26/3/22

Smiti Prabha
26/3/22

Shruti Nef
26/03/22

Samir Gyungam Kaur
26/3/22

Rishi
26/3/22

Pratik
26/3/22

Sharon
26.3.22

Ladly Devi
26.3.2022

Kashir
26.3.22

SEMESTER I

4 Papers

Total 100 x 4 = 400 Marks

I. CORE COURSE [CCPGDMP 101]:

(Credits: Theory-04, Tutorial-01)

Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100

Pass Marks (MSE:17 + ESE:28)=45

Instruction to Question Setter:

Mid Semester Examination (MSE):

There will be two groups of questions in written examinations of 20 marks. Group A is compulsory and will contain five questions of very short answer type consisting of 1 mark each. Group B will contain descriptive type five questions of five marks each, out of which any three are to be answered.

End Semester Examination (ESE):

There will be two groups of questions. Group A is compulsory and will contain two questions. Question No.1 will be very short answer type consisting of five questions of 1 mark each. Question No.2 will be short answer type of 5 marks. Group B will contain descriptive type six questions of fifteen marks each, out of which any four are to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations

The Mid Semester Examination shall have three components. (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each, (b) Attendance/ regular interactions of 05 marks and (c) Seminar/ assignment of 05 marks. "Better of Two" shall be applicable for computation of marks for SIA.

(Attendance Upto 75%, 1 mark; 75 < Attd. < 80, 2 marks; 80 < Attd. < 85, 3 marks; 85 < Attd. < 90, 4 marks; 90 < Attd. 5 marks).

Plant Taxonomy and Cultivation of Medicinal Plants (Theory 60hr, Tutorial 15hr)

Group A

1. Identification, Classification (Bentham and Hooker's Classification) and determination of correct names in pursuance with principles and articles of ICBN.
2. Plant nomenclature, local vernacular names and scientific names of the common medicinal plants of this region.
3. Concept of taxa, family, genus and species.

Ladly Rane
26-3-2022

Smriti Prabha
26/3/22

RVR
26/3/22

Abhinav
26/3/22

Sannu Gunjan
26/03/22

Bhush
26/3/22

Sweet Noj
26/03/22

Sharan
26.3.22

Kandir
26.3.22

4. Herbarium Techniques: methods of collecting plants, arrangement in the press, mounting of the specimens, preservation, labeling, storing, functions or utility of herbaria.
5. Floral Biology : Phcnology,

Group B

6. Cultivation of different potential medicinal plants: Knowledge about area, land, soil, method of sowing, irrigation, weeding, care etc. of *Chlorophytum-safed musli*, *Withania sominifera*- aswagandha, *Simmondsia Chinensis*-jojoba, *Asparagus racemosus*- satawar, *Aloe vera*- ghritkumari, *Andrographis paniculata*- Kalmegh, *Acorus calamus*- Ghorabach, *Rauvolfia serpentinae*-Sarpchandha, *Costus speciosus*- Kenwa, *Gloriosa superba*-Kalihari.
7. Market scenario of medicinal plants, National and Stat Medicinal Plants Board and its role.

Abhinav
26/3/22

Ladly Rani
26/3-2022

Shweta Neg
26/03/22
Smriti Prash
26/3/22

Rishi
26/3/22
Samir Gungun Kalug
26/3/22

Prakash
26/3/22

Kandir
26.3.22

Sharan
26.3.22

CORE COURSE [CCPGDMP102]:

(Credits: Theory-04, Tutorial-01)

Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100

Pass Marks (MSE:17 + ESE:28)=45

Instruction to Question Setter:

Mid Semester Examination (MSE):

There will be two groups of questions in written examinations of 20 marks. Group A is compulsory and will contain five questions of very short answer type consisting of 1 mark each. Group B will contain descriptive type five questions of five marks each, out of which any three are to be answered.

End Semester Examination (ESE):

There will be two groups of questions. Group A is compulsory and will contain two questions. Question No.1 will be very short answer type consisting of five questions of 1 mark each. Question No.2 will be short answer type of 5 marks. Group B will contain descriptive type six questions of fifteen marks each, out of which any four are to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations

The Mid Semester Examination shall have three components. (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each, (b) Attendance/ regular interactions of 05 marks and (c) Seminar/ assignment of 05 marks. "Better of Two" shall be applicable for computation of marks for SIA.

(Attendance Upto 75%, 1 mark; 75 < Attd. < 80, 2 marks; 80 < Attd. < 85, 3 marks; 85 < Attd. < 90, 4 marks; 90 < Attd. 5 marks).

Plant Anatomy and Biometry

(Theory 60hr, Tutorial 15hr)

Group A

Plant Anatomy

1. Distribution of tissues in plants: leaves or leaflets, barks woods.
2. Epidermal characters of leaves;
3. Stomata : Orientation and shape of stomata, stomatal index;
4. Cell differentiation and ergastic cell substances,
5. Plant Anatomy in relation to Plant Taxonomy.

Group B

Biometry

6. Introduction of Biometry
7. Mean, mode, median, mean deviation
8. Standard deviation Standard error,
9. Student 't' Test

Lodly Ravi
26/3/2022

Smrity Prebha
26/3/22

Mahatava
26/3/22

Samir Gungjan
26/3/22

Meha
26/3/22

Kandiv
26-3-22

Shruti Nay
26/03/22

Sharon
26.3.22

CORE COURSE [CCPGDMP103]:

(Credits: Theory-04, Tutorial-01)

Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE:
3Hrs)=100

Pass Marks (MSE:17 +
ESE:28)=45

Instruction to Question Setter:

Mid Semester Examination (MSE):

There will be two groups of questions in written examinations of 20 marks. Group A is compulsory and will contain five questions of very short answer type consisting of 1 mark each. Group B will contain descriptive type five questions of five marks each, out of which any three are to be answered.

End Semester Examination (ESE):

There will be two groups of questions. Group A is compulsory and will contain two questions. Question No.1 will be very short answer type consisting of five questions of 1 mark each. Question No.2 will be short answer type of 5 marks. Group B will contain descriptive type six questions of fifteen marks each, out of which any four are to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations

The Mid Semester Examination shall have three components. (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each, (b) Attendance/ regular interactions of 05 marks and (c) Seminar/ assignment of 05 marks. "Better of Two" shall be applicable for computation of marks for SIA.

(Attendance Upto 75%, 1 mark; 75 < Attd. < 80, 2 marks; 80 < Attd. < 85, 3 marks; 85 < Attd. < 90, 4 marks; 90 < Attd. 5 marks).

Phytochemistry

(Theory 60hr, Tutorial 15hr)

1. Basic principles in relation to medico-ethnobotany: General methods associated with the phytochemical investigations of herbal products.
2. Acquaintance with apparatus with Principles and applications of instruments
 - (A) Chromatographical techniques: Paper Chromatography, Thin Layer Chromatography, Ion Exchange Chromatography, Gas Liquid Chromatography, Column Chromatography, HPLC
 - (B) Ultracentrifugation, Gel Electrophoresis, Spectrophotometer.
3. Antifungal and antibacterial activity with the help of extracts of medicinal plants.
4. Basic metabolic pathways and the origin of secondary metabolite: Enzymes, photosynthesis, carbohydrate utilization, glycosides, Fats and fatty acids, aromatic biosynthesis, amino acids, peptides and proteins, isoprenoid compounds, secondary metabolites.

Ladly Pans
26.3.2022

Sheet No
26/03/22
Smriti Peshke
26/3/22

Abhinav
26/3/22

Rohit
26/3/22

Samir Gurjion Kalug
26/03/22

Balraj
26/3/22

Kaushik
26.3.22

Sharan
26.3.22

II. CORE COURSE PRACTICA [CPPGDMP104]:

(Credits: Practical-05)

Marks: 100 (ESE Pr: 6Hrs)

Pass Marks =45

Instruction to Question Setter:

End Semester Practical Examination (ESE Pr):

The questions in practical examination will be of equal to 70 marks and will be so framed that the students are able to answer them within the stipulated time. 20 marks will be awarded on the performance in viva voce whereas 10 marks will be awarded on cumulative assessment which is further subdivided as 5 marks for Practical record and 5 marks for Attendance.

Note:

(Attendance Upto 75%, 1 mark; 75 < Attd. < 80, 2 marks; 80 < Attd. < 85, 3 marks; 85 < Attd. < 90, 4 marks; 90 < Attd. 5 marks).

PRACTICAL-I

Practical: 60Hours

1. Visits of Tribal/Forest areas and study of plant materials used as medicines by tribals/others.
2. Identification and description of 20 (twenty) plants of medico-ethnobotanical value.
3. Preparation of Herbarium.
4. Distribution of tissues containing ergastic substances, epidermal structures.
5. Structure, number and types of stomata and epidermal cells, Stomatal Index.
6. Use of Biometry.
7. Biochemical analysis of medicinal plants.

Ashwari Kawa
26/3/22

Sadly Dami
26.3.2022

Sheeto Nep
26/03/22
Smrity Prabha
26/3/22

RNR
26/3/22

Sanus Gyanan Kalua
26/03/22
Bhush
26/3/22

Kandur
26.3.22

Sharan
26.3.22

SEMESTER II

4 Papers**Total 100 x 4 = 400 Marks****I. CORE COURSE [CCPGDMP 201]:** (Credits: Theory-04, Tutorial-01)**Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100****Pass Marks (MSE:17 + ESE:28)=45****Instruction to Question Setter:****Mid Semester Examination (MSE):**

There will be two groups of questions in written examinations of 20 marks. Group A is compulsory and will contain five questions of very short answer type consisting of 1 mark each. Group B will contain descriptive type five questions of five marks each, out of which any three are to be answered.

End Semester Examination (ESE):

There will be two groups of questions. Group A is compulsory and will contain two questions. Question No.1 will be very short answer type consisting of five questions of 1 mark each. Question No.2 will be short answer type of 5 marks. Group B will contain descriptive type six questions of fifteen marks each, out of which any four are to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations

The Mid Semester Examination shall have three components. (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each, (b) Attendance/ regular interactions of 05 marks and (c) Seminar/ assignment of 05 marks. "Better of Two" shall be applicable for computation of marks for SIA.

(Attendance Upto 75%, 1 mark; 75 < Attd. < 80, 2 marks; 80 < Attd. < 85, 3 marks; 85 < Attd. < 90, 4 marks; 90 < Attd. 5 marks).

ETHNOBOTANY**Theory: 60 Hours; Tutorial: 15 Hours**

1. Its Scope, interdisciplinary approaches.
2. Ethnic Groups of India with special reference to present ethnic groups of this area, Major and minor tribes: Life style of ethnic tribes with reference to their rituals.
3. Medico-ethnobotany: Survey and their role in ethno-medicine.
4. Market scenario of medicinal plants, National and State Medicinal Plants Board and its role.
5. Introduction to Traditional Knowledge Digital Library (TKDL).
6. Intellectual Property Right (IPR): Introduction, Importance and types of intellectual property.

Ashmitava
26/3/22

Smriti Prabha
26/3/22

Riya
26/3/22

Manish
28/3/22

Sanjay Kumar
26/3/22

Kaushik
26.3.22

Sharan
26.3.22

Shakti Negi
26/03/22

Ladly Devi
26.3.2022

II. CORE COURSE [CCPGDMP202]: (Credits: Theory-04, Tutorial-01)

Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100

Pass Marks (MSE:17 + ESE:28)=45

Instruction to Question Setter:

Mid Semester Examination (MSE):

There will be two groups of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of very short answer type consisting of 1 mark each. **Group B will contain descriptive type five questions of five marks each, out of which any three are to be answered.**

End Semester Examination (ESE):

There will be two groups of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type consisting of five questions of 1 mark each. Question No.2 will be short answer type of 5 marks. Group B will contain descriptive type six questions of fifteen marks each, out of which any four are to be answered.**

Note: There may be subdivisions in each question asked in Theory Examinations

The Mid Semester Examination shall have three components. (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each, (b) Attendance/ regular interactions of 05 marks and (c) Seminar/ assignment of 05 marks. "Better of Two" shall be applicable for computation of marks for SIA.

(Attendance Upto 75%, 1 mark; 75 < Attd. < 80, 2 marks; 80 < Attd. < 85, 3 marks; 85 < Attd. < 90, 4 marks; 90 < Attd. 5 marks).

Pharmacognosy & Applied Pharmacology

Theory: 60 Hours; Tutorial: 15 Hours

Group A

S.N.

Pharmacognosy

1. Definition, history, and scope of pharmacognosy.
2. Classification of Drugs
3. Factors involved in production of drugs (exogenous and endogenous factor)
4. Adulteration of drugs, Evaluation of drugs.
5. Standardization of herbal drugs.
6. Extraction procedures and identification tests of: Alkaloids, Glycosides, Volatile oils, Resins, Tanins, etc.

Groups B

Applied Pharmacology

7. Applied pharmacology of individual medicinal plants selected for this course under following headings (Synonyms, biological source, family, habitat, chemical ingredients and active principles, therapeutic uses etc.)
 - a) Alkaloid containing drugs: *Catharanthus roseus*- Sadabahar, *Datura stramonium*-Dhatura, *Adathoda zeylanica*-Basak, *Holarrhena anatidysenteric*-Kurchi.

Faculty Dani
26/3/22

Shweta Negi
26/03/22

Ashmita
26/3/22

Smriti Puroha
26/3/22

Samir Gungun Kaur
26/03/22

Arushi
26/3/22

Kaushik
26.3.22

Sharan
26.3.22

- b) Tannin containing drugs: *Terminalia chebula*-Harre, *Terminalia bellerica*-Behera, *Terminalia arjuna*-Arjun.
 - c) Volatile oil containing: *Mentha* species.
 - d) Resin containing drugs: *Cucumal longa*-Haldi,
 - e) Lipid containing drugs: *Pongamia pinnata*-Karanj
8. Preparation of doses and root of administration;
 9. Adverse effect and toxic effect, contraindication, any precautions for use.
 10. Elementary knowledge of tissue culture and Biotechnology

Abhinav
26/3/22

Pratik
26/3/22

Samuel Gungun Lalwa
26/3/22

Sharan
26.3.22

Rishi
26/3/22

Kanishk
26.3.22

Shwet Neg
26/03/22

Ladly Dahi
26.2.2022

Smriti Pruthi
26/2/22

III. CORE COURSE PRACTICAL|CPPGDMP203| (Credits: Practical-05)

Marks: 100 (ESE Pr: 6Hrs)

Pass Marks =45

Instruction to Question Setter:

End Semester Practical Examination (ESE Pr):

The questions in practical examination will be of equal to 70 marks and will be so framed that the students are able to answer them within the stipulated time. 20 marks will be awarded on the performance in viva voce whereas 10 marks will be awarded on cumulative assessment which is further subdivided as 5 marks for Practical record and 5 marks for Attendance.

Note:

(Attendance Upto 75%, 1 mark; 75 < Attd. < 80, 2 marks; 80 < Attd. < 85, 3 marks; 85 < Attd. < 90, 4 marks; 90 < Attd. 5 marks).

PRACTICAL-II

Practical: 60Hours

1. Tissue Culture Techniques.
2. Pharmacy practical: Weight and measure, preparation of medicaments by medicinal plants either in powdered form, tables or extracts, aqueous preparation and syrup for definite doses and directions for use.
3. Standardization of herbal plant materials by different evaluating methods :
 - a) Organoleptic evaluation
 - b) Microscopic evaluation (Determination of Anatomical and histological characters (through T.S and Powder sample)
 - c) Chemical evaluation (Qualitative and Quantitative)
 - d) Physical evaluation : Estimation of Foreign materials , Moisture content, Determination of Ash values, Solubility- water and alcohol, Successive extraction, Determination of Rf value by TLC, Determination of optical density, Refractive index, PH estimation, Determination of viscosity, Swelling Index, Determination of Essential Oil, Melting point and boiling point
 - e) Biological evaluation

Sheet No 1
26/03/22

Smiti Prabha
26/3/22

Ashmita
26/3/22

Smiti Gyrfan
26/3/22

Rishi
26/3/22

Kaushik
26.3.22

Anurag
26.3.22

IV. CORE COURSE (PROJECT) [PRPGDMP204]:

(Credits: 05)

Marks : 100 (ESE: 3Hrs)=100

Pass Marks =45

Guidelines to Examiners for

End Semester Examination (ESE):

Overall project dissertation may be evaluated under the following heads:

- *Motivation for the choice of topic*
- *Project dissertation design*
- *Methodology and Content depth*
- *Results and Discussion*
- *Future Scope & References*
- *Participation in Internship programme with reputed organization*
- *Application of Research technique in Data collection*
- *Report Presentation*
- *Presentation style*
- *Viva-voce*

The distribution of marks will be as follows:

- | | |
|---|----|
| 1. <i>Assessment of Project Thesis.</i> | 70 |
| 2. <i>Describe in brief your work on project with its significance.</i> | 10 |
| 3. <i>Eminent Scientists related to your project work Scientific Journals related to your project work.</i> | 10 |
| 4. <i>Viva-voce.</i> | 10 |

PROJECT WORK

Each student **must** submit two copies of the dissertation work duly forwarded by the **Head of the Department and duly signed by the supervisor concerned.** The forwarded copies will be submitted in the Department of Botany, Ranchi University, for evaluation (Seven days before the seminar).

Topics

Each student shall have to complete a project work on any topic of his choice, but relevant to a topic from the concerned special paper, or on a topic allotted by his/her Project Guide/ Supervisor/ Department in Semester -II.

The topic of project should be completed under following heads:

1. Introduction
2. Review literature
3. Materials and Methods
4. Results
5. Discussion
6. Reference

The practical of project should be completed either in the Departmental laboratory or other Institutions.

NB:- Students will select topics for the project work in consultation with a teacher of the department.

The Seminar will be held in the Department of Botany, Ranchi University, Ranchi.

Shweta Neg
26/03/22

Smevity Proshu
26/3/22

Abhinav
26/3/22

Samuel
26/3/22

Kaul
26.3.22

Anan
26.3.22

DISTRIBUTION OF MARKS FOR EXAMINATIONS AND FORMAT OF QUESTION PAPERS

Distribution of Marks for Mid Semester Evaluation:

Table No. 15: Distribution of marks of Theory Examinations of Mid Semester

Topic	Code	Full Marks	Pass Marks	Time	Group-A (Very short answer type Compulsory Questions) No. of Questions x Marks = F.M.	Group-B (Descriptive Questions) No. of Questions x Marks = F.M.	Total No. of Questions to Set	
							Group A	Group B
Mid Sem*	T30*	30 (20 +5 +5)	17	1 Hr	5 x1 =5	3 (out of 5) x5 =15	05	5

*There shall be 20 marks theory examination for mid semester, 05 marks for attendance/ regular interactions & 05 marks for seminar/ assignment/ term paper given by faculty concerned in classrooms.

Distribution of Marks for End Semester Theory Examinations:

Table No. 16: Marks distribution of Theory Examinations of End Semester

Topic	Code	Full Marks	Pass Marks	Time	Group-A* (Very short answer type Compulsory Questions) No. of Questions x Marks = F.M.	Group-B (Descriptive Questions) No. of Questions x Marks = F.M.	Total No. of Questions to Set	
							Group A*	Group B
End Sem	T70	70	28	3 Hrs	Q.No.1 (5x1) + 1x5 =10	4 (out of 6) x15 =60	2	6

Question No.1 in Group-A carries very short answer type questions of 1 Mark

Note : There may be subdivisions in each question asked in Theory Examinations.

Ahmarbasa
26/3/22

Sanjay Gargan Dalu
26/3/22

Khandi
26.3.22

Shweta Neg
26/03/22

Smrity Prabha
26/3/22

Rishi
26/3/22

Prakash
26/3/22

Sharan
26.3.22

FORMAT OF QUESTION PAPER FOR MID SEM EXAMINATION

20 MARKS



Ranchi University, Ranchi

Mid Sem No.

Exam Year

Subject/ Code

F.M. =20

Time=1Hr.

General Instructions:

lekU; funsZ" k %

- Group A carries very short answer type compulsory questions.
([kaM *A* esa vR;ar y?kq mÜkj; vfuok;Z iz"u gSaA)
- Answer 3 out of 5 subjective/ descriptive questions given in Group B.
([kaM *B* ds ikjp esa ls fdUgha rhu fo'k;fu'B@ o.kZukRed iz"uksa ds mÜkj nsaA)
- Answer in your own words as far as practicable.
(;FkklaHko vius "kCnksa essa mÜkj nsaA)
- Answer all sub parts of a question at one place.
(,d iz"u ds lHkh Hkkxksa ds mÜkj ,d lkFk fy[ksaA)
- Numbers in right indicate full marks of the question.
(iw.kkZad nk;ha vksj fy[ks x;s gSaA)

Group A

- [5x1=5]
-
-
-
-

Group B

- [5]
- [5]
- [5]
- [5]
- [5]

Note: There may be subdivisions in each question asked in Theory Examination.

Sheet Neg
26/03/22

Smrity Prabha
26/3/22

Administer
26/3/22

Sanjay Anuj
26/3/22

Dr. B. K. Singh
26/3/22

Prakash
26.3.22

FORMAT OF QUESTION PAPER FOR END SEM EXAMINATION

70 MARKS



Ranchi University, Ranchi

End Sem No.

Exam Year

Subject/ Code

F.M.=70

P.M.=28

Time=3Hrs.

General Instructions:

- Group A carries very short answer type compulsory questions.
- Answer 4 out of 6 subjective/ descriptive questions given in Group B.
([k@b* d sN/eei sfd tgrap k to k tu' B@o. k@ed i z uked sntij n@])
- Answer in your own words as far as practicable.
(; FNi Hb vi us' k@eeentij n@)
- Answer all sub parts of a question at one place.
(, d i z u d si Hh Hkded sntij , d i Hk fy [k@])
- Numbers in right indicate full marks of the question.
(i v@k nk havijs fy [lex; s@e])

Group A

1. [5x1=5]
-
 -
 -
 -
 -

2. [5]

Group B

- [15]
- [15]
- [15]
- [15]
- [15]
- [15]
- [15]
- [15]

Note: There may be subdivisions in each question asked in Theory Examination.

Shree Nep
26/03/22
Smrity Prabha
26/3/22
Rishi
26/03/22
Abhinav
26/3/22
Samar Gyujom Lakshya
26/03/22
Bharat
26/3/22
Kushal
26.3.22
Sharan
26.3.22