



SOUTH KOKAN EDUCATION SOCIETY'S
RANI PARVATI DEVI COLLEGE OF ARTS & COMMERCE, BELAGAVI.
(AUTONOMOUS)

Affiliated to Rani Channamma University, Belagavi



CURRICULUM FRAMEWORK FOR UNDER GRADUATE COURSE
COURSE STRUCTURE AND SYLLABUS

BA
DSC- GEOGRAPHY
(Theory & Practical)
1ST AND 2ND SEMESTERS

w.e.f.
2024-25 and onwards

Submitted by

Chairman
Board of Studies (BoS)
Dept. of Geography
R.P.D. College of Arts and Commerce, Belagavi.



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DEPARTMENT OF GEOGRAPHY
BOARD OF STUDIES

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2	Dr. Manjunath N. K Assistant Professor in Geography, Rani Channamma University, Belagavi.	Member (V.C. Nominee)
3	Dr. D.H. Pawar Associate Professor in Geography Shivaji University, Kolhapur, Maharashtra.	Member (Expert from Outside Parent University)
4	Dr.(Mrs). Bhanumati Pilli Assistant Professor in Geography, Parvatibai Chowgule College of Arts and Science, Autonomous, Margao. South Goa.	Member (Expert from Outside Parent University)
5	Dr. G.N. Sheeli Associate Professor in Geography, Lingaraj College (Autonomous), Belagavi.	Member (Meritorious Alumni)
6	Mr. Prateek P. Joshi Wise Tech Global Company, Bangaluru.	Member (Representative from Industry /Corporate Sector)
7	Dr. M.S. Kurani Associate Professor in Geography, R.P.D. College, Belagavi	Member
8	Mr. Manjunath Dodamani Dept. Of Geography, R.P.D. PU College, Belagavi	Invitee



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DEPARTMENT OF GEOGRAPHY
COURSE STRUCTURE

Sem	Type of Course	Theory/Practical	Course Code	Course Title	Teaching Hrs./Week	Total Hrs./Sem	Duration of Exam	MARKS			Credits
								Formative	Summative	Total	
I	DSC-1	Theory DSC-1.1.1	1156	Principles of Geomorphology	4	52	3 hrs	20	80	100	3
		Practical DSC-1.2		Interpretation of SOI Topographical Maps	4	52	4 hrs	10	40	50	2
II	DSC-2	Theory DSC-2.1.1		Fundamentals of Climatology	4	52	3 hrs	20	80	100	3
		Practical DSC-2.2.2		Interpretation of IMD Weather Maps	4	52	4 hrs	10	40	50	2



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GEOGRAPHY

FIRST SEMESTER THEORY

Course Title : DSC- 1.1 Principles of Geomorphology

Subject code:	Credits : 03
Contact Hours : 52	Weekly Hours : 04
Semester End Examination : 80 marks	Internal Assessment : 20 Marks

Course objectives:

This course aims to:

- To familiarize the students with the fundamental concepts in Geomorphology
- To provide basic understanding of the processes and history of landscape evolution.
- To introduce various concept to understand cycles of the solid Earth surface
- To understand the dynamic nature of the Earth's surface, various processes and landforms.

Course Outcomes (COs):

After the completion of course, the learners will have the ability to:

- CO 1: Understand fundamental knowledge in Geomorphology, the origin of the earth and its evolution.
- CO 2: To obtain adequate knowledge of internal structure of the earth and acquire comprehensive knowledge of continental drift, plate tectonics, concept of Isostasy and earth's movements
- CO 3: Understand geomorphic processes which act on the earth's surface and able to identify the different types of rocks and their characteristics.
- CO 4: Understand the dynamic nature of the earth's surface and able explain the forces affecting the crust of the earth
- CO 5: Understand the conceptual and dynamic aspects of evolution and development of various landforms.

Pedagogy:

Computer-Assisted Learning. Use of Multimedia (Audio-Video), use of Equipment, Apparatus, Maps and Charts in teaching, One-to-One teaching method in Practical Sessions, Project and field Based Learning, Study Tours, Case studies, Presentations, Classroom Seminars and group discussion.

Discipline Specific Course (DSC -1.1)	
Title of the Paper : Principles of Geomorphology (Theory)	52 Hours
UNIT I :	10 Hours
• Introduction to Geography : Branches of Geography • Geomorphology: Meaning, definition, nature, scope, significance. • Fundamental concepts of Geomorphology • Origin and evolution of the Earth: Nebular and Planetesimal theory • Geological Time Scale (GTS)	
UNIT II:	08 Hours
• Interior structure of the Earth • Forces of the Earth: Endogenic and Exogenic • Wegener's Theory of Continental Drift, Plate Tectonic Theory and Theory of Isostasy.	
UNIT III:	12 Hours
• Geomorphic Processes: Weathering and its types ; Physical, Chemical and Biological • Mass Wasting: Types and processes. • Rocks: Origin and Types ; Igneous, sedimentary, and metamorphic rocks, Rock Cycle • Cycle of Erosion: Theories of Davis and Penck.	
UNIT IV:	10 Hours
Forces of Earth Crust: • Faults and Folds and their Types • Earthquakes: Causes, effects, distribution of earthquakes in India and World, Tsunami • Volcanoes: Types, causes, effects, distribution and related landforms.	
UNIT V:	12 Hours
• Evolution of Landforms (Erosional and Depositional): Fluvial processes, Aeolian processes, Glacial, Underground, Coastal processes and landforms. • Field Trip and Report Writing: i) Collect various types of rocks/ soils found near native place, documenting their geological characteristics. OR ii) Students should visit nearby localities and observe the types and characteristics of Landforms and submit a brief report by analysing their characteristics and formation processes.	

BOOKS RECOMMENDED

Essential References:

1. Arthur L. Bloom (1979): *Geomorphology*, Prentice hall of India Pvt. Ltd, New Delhi.
2. Dayal, P. (1996): *A Text book of Geomorphology*, Shukla Book Depot, Patna
3. Gautam Alka, (2023): *Geomorphology, (6th Ed)*, Sharda Pustak Bhavan, Prayagraj
4. Hugget Richard John, (2019): *Fundamentals of Geomorphology, 4th Ed.* Taylor and Francis, Oxfordshire, England
5. Husain Majid (2021): *Fundamentals of Physical Geography*, 5th Ed, Rawat publication, Jaipur.
6. Kale V. and Gupta, A. (2001): *Element of Geomorphology*, Oxford University Press, Calcutta.
7. Monkhouse, F.J. (1962): *Principles of Physical Geography*, Hodder and Stoughton, London.
8. Mallappa P. (2006): *Physical Geography (Kannada)* Chetan Book House, Mysore
10. Pitty A.(1974): *Introduction to Geomorphology*, Methuen, London
11. Rangnath (2020): *Physical Geography*, 1stEd. Mysore Book House, Mysore. (English and Kannada)
12. Shuttleworth Emma and Hugget Richard (2022): *Fundamentals of Geomorphology*, 4th Ed, Taylor and Francis, Oxfordshire, England
13. Singh Savindra (2023): *Physical Geography*, Classic Ed, Pravilika Publication ,Pryagraj.
14. Tikka R.N (1997): *Physical Geography*, Kedarnath Ramnath and Co. Meerut.

Additional References:

1. Chorley, Richard. J. (ed.), (2001): *Water, Earth and Man*, Methuen & Co., London.
2. Goudie, Andrew, et al. (eds), (2001) : *Geomorphological Technique*, George Allen & Unwin London.
3. Hugget Richard John (2019): *Fundamentals of Geomorphology, 4th Ed.* Taylor and Francis, Oxfordshire, England.
4. PMF IAS (2023-24): *Physical Geography for UPSC, 1st Ed.* PMS IAS publisher, Sindhanur, Karnataka.
5. Ramzan Dar Rafi (2021): *Geomorphology, 1st Ed.* Renascence Publishers, Jammu and Kashmir.
6. Thornbury, W.D (2019): *Principles of Geomorphology*, 2nd Ed., CBS publisher and distributors Pvt. Limited, New Delhi

Web Resources:

1. <http://shaileshchaure.com/Notes/GEOMCON.pdf>
2. <https://www.britannica.com/science/plate-tectonics>
3. <https://education.nationalgeographic.org/resource/continental-drift>
4. https://www.researchgate.net/publication/309630899_FLUVIAL_PROCESSES_AND_LANDFORMS



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GEOGRAPHY

FIRST SEMESTER (PRACTICAL)	
Course Title : DSC– 1.2 INTERPRETATION OF SOI TOPOGRAPHICAL MAPS	
Subject code:	Credits : 02
Contact Hours : 52	Weekly Hours : 04
Semester End Examination : 40 marks	Internal Assessment : 10 Marks
Course objectives:	
The course aims to: - To develop skills of relief representation and Toposheet reading, data analysis and interpretation. - To develop higher order skill of converting signs and symbols into words.	
Course Outcomes (COs):	
After the completion of course, the learners will have the ability to: - CO1: Understand the types, uses and features of Maps. - CO2: To understand and draw the different types of landforms and their features. - CO3: Understand the techniques of representing different relief features and Interpretation of the characteristics. - CO4: Understand the techniques of representing different cultural features and interpretation of the characteristics. - CO5: To draw the different relief features by using the cross section method.	
Pedagogy:	
Computer-Assisted Learning. Use of Multimedia (Audio-Video), use of Equipment, Apparatus, Maps and Charts in teaching, One-One teaching method in Practical Sessions.	
Discipline Specific Course (DSC -1.2)	
Title of the Paper : INTERPRETATION OF SOI TOPOGRAPHICAL MAPS (PRACTICAL)	52 Hours
UNIT I :	08 Hours

• Maps: Introduction, Types and significance of Maps: • SOI Topographical Maps: Indexing, Marginal Information, conventional signs and symbols of topographical maps.	
UNIT II:	12 Hours
• Locational Points: Eight cardinal points. • Grid Reference- Locating features with the help of a four-figure and a six-figure. Identifying the drainage pattern. • Contour diagrams: steep slope, gentle slope, hill, valley, ridge/water divide, escarpment. • Measurements: distances and area calculating using the scale.	
UNIT III:	12 Hours
• Interpretation of SOI Topographical maps with reference to Physical Features: a) Relief b) Drainage system c) Natural Vegetation.	
UNIT IV:	12 Hours
• Interpretation of SOI Topographical maps with reference to Cultural Features: a) Settlement and its patterns b) Transportation and Communication c) Agriculture and Irrigation d) Other land use characteristics	
UNIT V:	08 Hours
• Cross Section with the calculation of Vertical Exaggeration.	
BOOKS RECOMMENDED	
Essential References: 1. D. R. Khullar (2019): <i>Essentials of Practical Geography</i>, Rasmeet Prakashan, Chandigarh. 2. Gopal Singh (2006) : <i>Map Work & Practical Geography</i>, Vikis Publishing House Pvt.Ltd. Noida. 3. Ranganath (2018): <i>Practical Geography</i> (English and Kannada) Mysore Book Housr, Mysore. 4. Robinson. H (2020): <i>Elements of Practical Geography</i>, Uttarayan prakashan, Haldwani, Ninithal 5. Singh, R.L. and Singh Rana P.B., (2008): <i>Elements of Practical Geography</i>, Kalyani Publishers, New Delhi . 6. S. S. Nanjannavar (2021): <i>Practical Geography</i> (Kannada), J.M publication Manjunath Nagar, Bangalore.	
Additional References: 1. Gupta K.K. and Tyagi V.C. (2001): <i>Working with maps</i>, Kalyani Publishers, New Delhi. 2. NCERT Text Book (2066): <i>Practical Work in Geography</i>, NCERT Sri Aurobindo Marg, New Delhi. 3. Phyllis Dink (2002): <i>Map Work</i>, Atma Ram & Sons, New Delhi. 4. Shaha P and Basu P (2007): <i>Advanced Practical Geography</i>, Books and Allied (P) Ltd Kolcatta.	
Web Resources: 1. https://ncert.nic.in/textbook/pdf/kegy305.pdf 2. https://www.twinkl.co.in/teaching-wiki/grid-references 3. http://www.ncert.nic.in/ncerts/II/iess103.pdf 4. https://www.omnicalculator.com/other/vertical-exaggeration	



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GEOGRAPHY

SECOND SEMESTER (THEORY)

Course Title : DSC–2.1 Fundamentals of Climatology

Subject code:

Credits : 03

Contact Hours : 52

Weekly Hours : 04

Semester End Examination : 80 marks

Internal Assessment : 20 Marks

Course objectives:

This course aims to:

- To provide an understanding of Climate and weather phenomena.
- To know dynamics of global climate and the interaction between living organisms with climate and physical environment.

Course Outcomes (COs):

After successful completion of the course the students will be able to:

- CO1: Develop in depth basic knowledge of atmospheric weather and climate and the structure and composition of the atmosphere.
- CO2: Understand and explain how temperature, pressure and wind motion vary in time and space and their effect on weather.
- CO3: Understand the general characteristics, concept and effects of El Nino and La Nina on Indian monsoon.
- CO4: Understand the formation, characteristics and distribution of Cyclones and Anticyclones and Atmospheric Moisture Processes and significance, Hydrological Cycle and types of Humidity.
- CO5: Understand the formation and types of Clouds, precipitation. and types of rainfall and also Understand climatic variability and change to the issue of current and future global environmental change.

Pedagogy:

Computer-Assisted Learning. Use of Multimedia (Audio-Video), use of Equipment, Apparatus, Maps and Charts in teaching, One-One teaching method in Practical Sessions, Project and field Based Learning, Study Tours, Classroom Seminars, group discussion.

Discipline Specific Course (DSC -2.1)	
Title of the Paper : DSC–2.1 FUNDAMENTALS OF CLIMATOLOGY (THEORY)	52 Hours
UNIT I :	06 Hours
• Introduction to Climatology: definition, nature, scope, significance and sub- divisions • Weather and Climate: Difference and Elements • Origin, nature, structure and composition of the Atmosphere.	
UNIT II:	12 Hours
• Insolation : Factors, Distribution and Heat Budget • Temperature: Factors and distribution - vertical, horizontal, and inversion of temperature. • Atmospheric Pressure and Winds: Global Pressure and wind belts • Local Winds: Land and sea breezes, mountain and valley breezes.	
UNIT III:	12 Hours
• Monsoons: mechanism and impact, Indian ocean dipole (IOD), El-Nino and La-Nina, • Intra-seasonal Oscillation (ISO) : Madden-Julian Oscillation index • Jet Streams-Characteristics, formation, and its effects. • Air Masses: Definition, nature, characteristics of air masses.	
UNIT IV:	12 Hours
• Atmospheric Disturbances: Cyclones and Anticyclones- Global patterns. • Tropical and Temperate Cyclones: Formation, characteristics and effects. • Atmospheric Moisture: Humidity and factors influencing humidity, types and measurement. • Process of Condensation and precipitation.	
UNIT V:	10 Hours
• Hydrological Cycle- Processes and significance. • Types of rainfall-- Convectional, Orographic and Cyclonic rainfall • Climate Change and its effects: post industrialization. Assignment/ Field Work/ Report Writing: • Analysis and graphical representation of Indian Weather Data OR • Visit to nearby weather station and submit a report	

BOOKS RECOMMENDED

Essential References:

1. Anup Chatterjee (2010): *Global Warming and Climate Change*-, Global Publications
2. Barry R.G. and Chorley, R. J (2009): *Atmosphere, Weather and Climate*, Routledge, New Delhi
3. Das P.K (1987): *Monsoons*, National Book trust, New delhi
4. Lal D. S. (2021): *Climatology*, Sharda Pustak Bhawan, Allahabad, India
5. Mallappa P (2000): *Physical Geography*, (Kannada Version), Chethana Book House, Mysore
6. Mittal V (2012): *Global Warming and Climate Change*, Paperback –Oxford book company,
a. New Delhi
7. Monkhouse, F.J (2009): *Principles of Physical Geography* (1Ed.), Platinum Publishers;
Publishers, India
8. Ranganath (2019): *Principales of Physical Geography* (Kannada Version) Vidyanidhi
Prakashan,Gadag.
9. Savindra Singh (2020): *Climatology*. Pravalika Publications, Allahabad, India
10. Tikka R.N (1997): *Physical Geography*, Kedarnath Ramnath and Co Meeru

Additional Resources:

1. Critchfield, H.J (1998): *General Climatology*, Prentice-Hall
2. P. Birot (1966): *General Physical Geography*, Longman, Green & Co Strahler, A.H., 1983:
ModernPhysical Geography, John Wiley and Sons.
3. Nitta, Y. (2000): *Monsoons*, Processes, predictability, and climate change. Springer.
4. Strahler A. M. and Strahler A.H. (1983): *Elements of Physical Geography*, John Wiley and Sons.
5. Stringer, E.T (1972): *Foundation of Climatology: An Introduction to Physical, Dynamic, Synoptic,
and Geographical Climatology*, W.H. Freeman & Co. Ltd.

Web resources:

1. <https://testbook.com/key-differences/difference-between-weather-and-climate>
2. <https://testbook.com/ias-preparation/mechanism-of-indian-monsoon>
3. <https://mausam.imd.gov.in/imdlatest/contents/monsoon.php>
4. https://shantashrimsl.yolasite.com/resources/T_5%20-%20Atmospheric%20Disturbances.pdf



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GEOGRAPHY

SECOND SEMESTER (PRACTICAL)

Course Title : DSC– 2.2 Interpretation of IMD Weather Maps

Subject code:

Credits : 02

Contact Hours : 52

Weekly Hours : 04

Semester End Examination : 40 marks

Internal Assessment : 10 Marks

Course objectives:

This course aims to:

- To provide basic practical tools in understanding weather and climate.
- To analyse weather maps and understand weather forecast.

Course Outcomes (COs):

At the end of this course, students will be able to:

- CO1: Locate and understand signs and symbols in IMD weather maps, observe seasonal variations.
- CO2: Understand and Interpret various meteorological instruments, and techniques for collecting the data.
- CO3: Interpret and analyse weather maps for Monsoons and post-monsoon.
- CO4: Interpret and analyze Indian weather maps for winter and summer seasons.
- CO5: Understand the procedure for Weather Forecasting and Warning.

Pedagogy:

Computer-Assisted Learning. Use of Multimedia (Audio-Video), use of Equipment, Apparatus, Maps and Charts in teaching, One-One teaching method in Practical Sessions.

Discipline Specific Course (DSC -2.2)

Title of the Paper :

DSC– 2.2 INTERPRETATION OF IMD WEATHER MAPS (PRACTICAL)

52 Hours

UNIT I :

10 Hours

• Introduction to Weather Maps: Meaning, significance of IMD weather maps • Weather signs and symbols • Seasons and seasonal variations • Isobaric pattern, depressions, calm conditions and cyclones and Anticyclones	
UNIT II:	10 Hours
• Meteorological Instruments: Thermometers (wet and dry bulb thermometer), Barometers (mercurial and aneroid), Digital Barometer, Digital Hygrometer, Rain gauge, wind vane, Anemometer, evaporation pan, dew meter. • Upper air observation instruments and techniques	
UNIT III:	14 Hours
• Interpretation of Indian Weather Maps: Seasonal Weather Patterns- Analysis of weather maps for Monsoons and post-monsoon (One map for each season).	
UNIT IV:	14 Hours
• Interpretation of Indian Weather Maps: Seasonal Weather Patterns- Analysis of weather maps for winter and summer seasons (One map for each season).	
UNIT V:	04 Hours
• Procedure for Weather Forecasting and Warning	

BOOKS RECOMMENDED

Essential References:

1. R. Khullar (2019): *Essentials of Practical Geography*, Rasmeet Prakashan, Chandigarh
2. Gopal Singh (2006) : *Map Work & Practical Geography*, Vikis Publishing House Pvt.Ltd. Noida
3. Ranganath (2018): *Practical Geography* (English and Kannada) Mysore Book Housr, Mysore.
4. Robinson. H (2020): *Elements of Practical Geography*, Uttarayan prakashan, Haldwani, Ninithal
5. Singh, R.L. and Singh Rana P.B., (2008): *Elements of Practical Geography*, Kalyani Publishers, New Delhi .
6. S. S. Nanjannavar (2021): *Practical Geography* (Kannada), J.M publication Manjunath Nagar, Bangalore

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1. Gupta K.K. and Tyagi V.C. (2001): *Working with maps*, Kalyani Publishers, New Delhi.
2. NCERT Text Book (2066): *Practical Work in Geography*, NCERT Sri Aurobindo Marg, New Delhi
3. Phyllis Dink (2002): *Map Work*, Atma Ram & Sons, New Delhi.
4. Shaha P and Basu P (2007): *Advanced Practical Geography*, Books and Allied (P) Ltd Kolcatta.

Web Resources:

1. <https://mausam.imd.gov.in/>
2. <https://tempest.earth/resources/types-of-weather-instruments/>
3. https://www.brainkart.com/article/Weather-Map-Interpretation_33861/
4. https://mausam.imd.gov.in/imd_latest/contents/all_india_forecast_bulletin.php



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DEPARTMENT OF GEOGRAPHY

FORMATIVE ASSESSMENT FOR THEORY

Assessment Type	Marks
Internal Assessment Test 1	05
Internal Assessment Test 2	05
Assignment	05
Classroom Activities	05
Total	20
Formative Assessment as per the guidelines	

FORMATIVE ASSESSMENT FOR PRACTICAL

Assessment Type	Marks
Internal Assessment Test	05
Lab records/lab work	05
Total	10
Formative Assessment as per the guidelines	



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GEOGRAPHY
QUESTION PAPER PATTERN FOR THEORY

PAPER:
Time: 3 Hours

Maximum Marks-80

Instructions to Candidates:

1. All Sections are Compulsory.
 2. Draw neat maps and Diagrams wherever necessary.
-

SECTION-A

Answer any TEN of the following, each not exceeding 50 words.

2x10=20

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.

SECTION-B

Answer any FOUR of the following, each not exceeding 200 words

5x4=20

- 13.
- 14.
- 15.
- 16.
- 17.
- 18.

SECTION-C

Answer any THREE of the following, each not exceeding 500 words.

10x3=30

- 19.
- 20.
- 21.
- 22.
- 23.

SECTION-D

Answer any ONE of the following each not exceeding 500 words.

10x1=10

24.

OR

.....
16

Note: Proportionate weightage shall be given to each unit based on number of hours Prescribed



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GEOGRAPHY
MODEL QUESTION PAPER (THEORY)

PAPER: Principles of Geomorphology (DSC- 1.1)

Time: 3 Hours

Maximum Marks-80

Instructions to Candidates:

- 1) All Sections are Compulsory.
 - 2) Draw neat maps and Diagrams wherever necessary.
-

SECTION- A

Answer any TEN of the following, each not exceeding 50 words.

2x10=20

1. Define Geography
2. Geomorphology
3. SIAL
4. Isostasy
5. Physical Weathering
6. Mass Wasting
7. Rock Cycle
8. Types of Folds
9. Earthquake waves
10. Tsunami
11. Delta
12. U Shaped valley

SECTION-B

Answer any FOUR of the following, each not exceeding 200 words

5x4=20

13. Explain the nature of Geomorphology
14. Explain the Plate Tectonic Theory
15. Describe the Types of Weathering
16. Discuss Penk's concept of Cycle of Erosion
17. Explain the Types of Volcanoes
18. Explain the Erosional features of work of Glacier

SECTION-C

Answer any THREE of the following, each not exceeding 500 words.

10x3=30

19. Explain Nebular theory of origin of Earth
20. Describe the Interior structure of the Earth with neat diagram
21. Explain Igneous rock and its types
22. Explain the causes and effects of Earthquake
23. Explain the denudational work of River

SECTION-D

Answer any ONE of the following each not exceeding 500 words.

10x1=10

24. Discuss the processes of mechanical and chemical weathering and show their relationship with soil formation

OR

With reference to the theory of plate tectonics, explain the origin and growth of Himalayan young fold mountain



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GEOGRAPHY
MODEL QUESTION PAPER FOR PRACTICAL

PAPER: : DSC– 1.2 INTERPRETATION OF SOI TOPOGRAPHICAL MAPS

Time: 4 Hours

Maximum Marks-40

Instructions to Candidates:

1. Attempt all Questions.
 2. This Question Paper should be attached to main Answer Book
 3. Electronic Digital Calculators, Mobile Phones are not allowed in Examination Hall.
-

I. Answer any FOUR of the followings (Question number 6 is compulsory) 4 x 4 = 16

1. What is Map? Explain its Types
2. Write a note on Marginal Information of SOI Toposheets
3. What is Grid Reference? Locating features with the help of a four-figure
4. Explain the colour combinations used on SOI Toposheets
5. Draw Contour diagrams of the following (Any Two)
a) Steep slope b) Hill c) Valley d) Escarpment.
6. Draw the signs and symbols of the following (any Three)
a. _____ b. _____ c. _____
d. _____ e. _____ f. _____

II. Answer the following Questions, each not exceeding 300 words 2 x 7 = 14

1. Draw and Interpret the Physical features from the given SOI Toposheet
a. Relief Features b. Drainage Pattern c. Natural Vegetation
2. Draw and Interpret the cultural features from the given SOI Toposheet
a. Settlements b. Transport and Communication c. Land Use and Irrigation

III. Draw the Cross Section of the given points and calculate the Vertical Exaggeration 1x5=5

IV. Viva-Voce 5 Marks