

Mata Gujri College (Autonomous)
Fatehgarh Sahib
Session: 2023-24
B.A Part-I (Semester-I)
Geography
Paper-A: Physical Geography-I: Geomorphology
Paper Code: B.A.-110

Total Course Credits – 03
Maximum Marks – 70
Theory - 50 Marks
Internal Assessment - 20 Marks

Pass Percentage – 35%
Time Allowed: 3 Hours
Total Teaching Periods: 60

INSTRUCTIONS FOR THE PAPER SETTER

1. The question paper will consist of three sections: A, B and C. Sections A and B will have four questions each from the respective sections of the syllabus and will carry 8 marks each (Total 32 Marks). The students are required to attempt any two from each section. Section C will consist of 09 short answer type questions covering the entire syllabus uniformly. The student shall attempt all short questions in about 20-25 words. Each short answer type question carries 2 marks (Total 18 marks).
2. The paper setter should mention that the use of outlined stencil maps of the world/continents/countries by the candidates is allowed.

INSTRUCTIONS FOR THE CANDIDATES

1. Candidates are required to attempt two questions each from sections A and B and the entire section C is compulsory.
2. Candidates are allowed to use outlined stencil maps of the world/continents/countries. They are also allowed to use simple calculators.
3. Credit will be given for suitable maps and diagrams.

DISTRIBUTION OF INTERNAL ASSESSMENT MARKS

1. 5 marks will be awarded on the basis of attendance in Class.
2. 5 marks will be awarded for the submission of an assignment.
3. 10 marks will be awarded as per the performance of the student in written tests (MST). There will be two tests in each semester.

OBJECTIVES and LEARNING OUTCOMES:

After going through this syllabus students will be able to attain the following objectives:

1. To introduce the students to the basic concepts of Physical Geography mainly Geomorphology.
2. To make the students aware of the need to protect and conserve different landforms.
3. To prepare the students for competitive exams.

PEDAGOGY: The teacher should use audio-visual aids, maps, diagrams, and other illustrations. Relevant educational field trips must be arranged to illustrate the theory being taught.

Section -A

| Sr.No. | Topics | Sub Topics |
|--------|--|---|
| 1. | Introduction to Geography | <ul style="list-style-type: none"> • Meaning and Importance of Geography • Nature and Scope of Geography |
| 2. | Theories of the origin of the Earth | <ul style="list-style-type: none"> • Laplace • Big Bang Theory |
| 3. | Realms of the Earth | Brief introduction to: <ul style="list-style-type: none"> • Atmosphere • Lithosphere • Hydrosphere |
| 4. | The constitution of the Earth's interior | <ul style="list-style-type: none"> • Crust • Mantle • Core |
| 5. | The Continental Drift Theory | <ul style="list-style-type: none"> • With special reference to Wegner's theory • Plate Tectonics |
| 6. | Forces of Compression and Tension | <ul style="list-style-type: none"> • Landforms resulting from Compression and Tension |

Section-B

| | | |
|-----|---|--|
| 7. | Classification of Rocks | Origin, Classification and Characteristics of: <ul style="list-style-type: none"> • Igneous Rocks • Sedimentary Rocks • Metamorphic Rocks |
| 8. | Earthquakes and volcanoes | <ul style="list-style-type: none"> • Causes, types and distribution |
| 9. | Major landforms | <ul style="list-style-type: none"> • Mountains • Plateaus • Plains |
| 10. | Geomorphic Agents and Processes | <ul style="list-style-type: none"> • Weathering • Erosion |
| 11. | Evolution of Landforms (Erosional and Depositional) | <ul style="list-style-type: none"> • Fluvial • Glacial • Aeolian |

TEACHER LEARNING ACTIVITIES:

1. Online/Offline Quizzes.
2. Assignments.
3. Visual demonstration of studies material.
4. Workshop on Google Earth.

Books Recommended:

1. Bunnet, R.B.: *Physical Geography in Diagrams*, Pearson Education, Noida, 1987.
2. Christopherson, Robert W., *Geosystems: An Introduction to Physical Geography, 8 Ed.*, Macmillan Publishing Company, 2011.
3. Dayal, P: *A Text Book of Geomorphology*, Shukla Book Depot, Patna, 1995.
4. Dury, G.H.: *The Face of the Earth*, Penguin, England, 1973.
5. Gregory, Kenneth J.; Lewin, John., *Basics of Geomorphology*, London, Sage, 2014.
6. Kale, V. and Gupta, A.: *Elements of Geomorphology*, Oxford University Press, 2001.
7. Kaur, Dhian :*The Earth*, Kalyani Publishers, Ludhiana, 2000.
8. Khullar, D.R.: *Physical Geography (Geomorphology) and Practical Geography*, Kalyani Publishers, Delhi, 2019.
9. Memoria, C.P. and Niati, J.L. :*Bhautic Bhoogol Ke Tatwa* (in Hindi), Agra, 1976
10. Monkhouse, F.J.: *Principles of Physical Geography*, New Delhi, Latest Edition.
11. Singh, Malkeet, *Physical Geography* (Punjabi Medium), Bharat publishers, Jalandhar,
12. Singh, S., *Bhautik Bhugol ka Swaroop*, Prayag Pustak, Allahabad, 2009.
13. Singh, Savinder: *Physical Geography*, Gyanodya Prakashan, Gorakhpur, 2009.
14. Strahler, A.N. & Strahler, A.H. : *Modern Physical Geography*, John Wiley, New York, 1992.
15. Thornbury, W.D.: *Principles of Geomorphology*, Second Edition, Wiley Eastern Ltd., New Delhi, 1993.
16. Tikha, R.N.: *Physical Geography*, New Academic Publishing Co., Jalandhar.

Mata Gujri College (Autonomous)
Fatehgarh Sahib
Sessions: 2023-24
B.A Part-I (Semester-I)
Geography
Paper – B: Practical Geography: Cartography and Field Survey
Paper Code: B.A.-110P

Total Course Credits – 01
Maximum Marks – 30

Pass Percentage – 35%
Time Allowed: 3 Hours
Total Teaching Periods: 40

Session-I (Morning) Theory

Total Marks: 10

Time Allowed: 3 hours

Three exercises should be given; out of these, candidates are required to attempt any two. Each exercise will carry five marks.

The paper will be set by the Examiners at the Centre on the spot.

Session-II (Evening) Viva Voce and Practical Record

Practical Record-7 Marks

Field Survey and Plotting – 7 Marks

Viva-Voice-06 Marks

Total Marks- 20

Note: Use of stencils and calculator is allowed.

OBJECTIVES and LEARNING OUTCOMES:

After going through this syllabus, students will be able to attain the following objectives:

- To help the students understand Map Scales and their importance.
- To acquaint the students with the principles of surveying, its importance and utility in geographical study.
- To enable the students to represent relief features by use of different methods.

PEDAGOGY: The use of topographical sheets of Survey of India and a well equipped cartographical laboratory with necessary instruments to prepare exercises.

Section –A

| Sr.No. | Topics | Subtopics |
|--------|------------------------|--|
| 1. | History of Cartography | <ul style="list-style-type: none"> ● Definition and brief history ● Maps and their types ● Principles of Map Design. |
| 2. | Map Scales | <ul style="list-style-type: none"> ● Types of scales and methods of construction of graphic scales (Plain Scale, Comparative scale, Time scale and Diagonal scale) |

Section – B

| | | |
|----|---------------------------|---|
| 3. | Methods of showing relief | <ul style="list-style-type: none"> ● Hachures ● Hill-Shading ● Contours (gentle and steep slope, concave and convex slope, terraced slope, conical hill, plateau, ridge, waterfall, U and V-shaped valley) |
| 4. | Chain and Tape survey | <ul style="list-style-type: none"> ● Triangulation ● Sketch |

Books Recommended:

1. Khullar, D.R.: *Essentials of Practical Geography*, New Academic Publishing Co., Jalandhar, 2009.
2. Monkhouse, F.J.: *Maps and Diagrams*, Methuen & Co., London, 1994 reprint.
3. Mishra, R.P. and Ramesh, A.: *Fundamentals of Cartography*, Concept Publishing Co., New Delhi, 1989.
4. Rather, G.M.: *A Text Book of Practical Geography*, Arina Publisher, New Delhi, 2011.
5. Robinson, A.H.: *Elements of Cartography*, John Wiley, New York, 1995.
6. Robinson A. H.: *Elements of Cartography*, John Wiley and Sons, New York, 2009.
7. Singh, Malkeet.: *Cartography (Punjabi Medium)*, Rashmeet Publication, Jalandhar.
8. Singh, Gopal: *Map work & Practical Geography*, Vikas Publishing House Pvt. Ltd., New Delhi, 1995.
9. Singh, L.R & Singh, Raghunandan: *Map Work and practical Geography*, Central Book Depot, Allahabad (1993).
10. Singh, Gopal, *Map Work and Practical Geography*, Vikas Publication House, 2004.
11. Sharma J. P.: *Prayogic Bhugol*, Rastogi Publishers, Meerut, 2010.
12. Tikha, R.N.: *Cartography and practical Geography*, Punjab State University Text Book Board

Mata Gujri College (Autonomous)
Fatehgarh Sahib
Session: 2023-24
B.A Part-I (Semester-II)
Geography
Paper –A: Physical Geography-II: Climatology and Oceanography
(Paper Code: B.A.-210)

Total Course Credits – 03
Maximum Marks – 70
Theory - 50 Marks
Internal Assessment - 20 Marks

Pass Percentage – 35%
Time Allowed: 3 Hours
Total Teaching Periods: 60

INSTRUCTIONS FOR THE PAPER SETTER

- (i) The question paper will consist of three sections: A, B and C. Sections A and B will have four questions each from the respective sections of the syllabus and will carry 8 marks each (Total 32 Marks). The students are required to attempt any two from each section. Section C will consist of 09 short answer type questions covering the entire syllabus uniformly. The student shall attempt all short questions in about 20-25 words. Each short answer type question carries 2 marks (Total 18 marks).
- (ii) The paper setter should mention that the use of outlined stencil maps of world/continents/countries by the candidates is allowed.

INSTRUCTIONS FOR THE CANDIDATES

- (i) Candidates are required to attempt two questions each from sections A and B of the question paper and the entire section C.
- (ii) Candidates are allowed to use outlined stencil maps of the world/continents/countries. They are also allowed to use simple calculators.
- (iii) Credit will be given for suitable maps and diagrams.

DISTRIBUTION OF INTERNAL ASSESSMENT MARKS

- (i) 5 marks will be awarded on the basis of attendance in Class.
- (ii) 5 marks will be awarded for the submission of an assignment.
- (iii) 10 marks will be awarded as per the performance of the student in written tests (MST). There will be two tests each semester.

OBJECTIVES and LEARNING OUTCOMES:

After going through this syllabus, students will be able to attain the following objectives:

- To introduce the students to the basic concepts of Physical Geography.
- To acquaint the students with the study of Climatology and its various aspects.
- To help the students understand the importance and need of conserving Ocean resources for our future.
- To prepare the students for competitive exams.

PEDAGOGY: Use of PPTs and documentaries on climates and oceans is strongly recommended.

Section-A

| Sr.No. | Topics | Sub Topics |
|--------|--------------------------------------|---|
| 1. | Definition of Climatology | <ul style="list-style-type: none"> • Difference between Climate and Weather • Elements and Controls of Climate and Weather |
| 2. | Atmosphere | <ul style="list-style-type: none"> • Physical Structure of the Atmosphere • Composition of the Atmosphere |
| 3. | Insolation | <ul style="list-style-type: none"> • Factors controlling its horizontal distribution |
| 4. | Temperature | <ul style="list-style-type: none"> • Horizontal and vertical distribution |
| 5. | Atmospheric Pressure and Wind System | <ul style="list-style-type: none"> • World Pressure belts • General circulations of winds • Classification of winds (Planetary, periodic and local winds.) • Forces affecting winds |
| 6. | Moisture and Precipitation | <ul style="list-style-type: none"> • Forms of condensation (clouds, dew, frost and snow) • Types of rainfall • Distribution of rainfall in the world • World Climatic Regions |
| 7. | Atmospheric pollution | <ul style="list-style-type: none"> • Causes, effects and controls of air pollution |

Section – B

| | | |
|-----|--|--|
| 8. | Oceanography | <ul style="list-style-type: none"> • Definition • Topography of the ocean basin (continental shelf, continental slope, deep sea plains and oceanic deep features). |
| 9. | Temperature and salinity in oceanic water | <ul style="list-style-type: none"> • Distribution and determinants of world patterns of temperature and salinity. |
| 10. | Movements of oceanic waters | <ul style="list-style-type: none"> • Waves • Tides • Currents of Atlantic and Pacific Ocean |
| 11. | Oceans as the storehouse of resources for the future | <ul style="list-style-type: none"> • Benefits of ocean resources to human beings |

TEACHER LEARNING ACTIVITIES:

1. Online/Offline Quizzes.
2. Assignments.
3. Visual demonstration of studies material.
4. Field Work/Educational Tour.

Books Recommended:

1. Bhutani, Smita: *Our Atmosphere*, Edited by RC Chandana, Kalyani Publishers, Ludhiana, Delhi 2000.
2. Chawla, I.N.: *Physical Geography* (Punjabi Medium), Bharat Publishers, Jalandhar.
3. Critchfield, H. J.: *General Climatology*, Prentice Hall of India Pvt. Ltd., New Delhi, 1975.
4. Frederick, K. and Edward, J. Tarbuck: *The Atmosphere: An Introduction to Meteorology*, Prentice Hall of India Pvt. Ltd., New Delhi, 1995.
5. Garrison, Tom: *Essentials of oceanography*, Belmont, Brooks/Cole Cengage Learning, 2009.
6. Khan, N.: *An Introduction to Physical Geography*, Concept, New Delhi, 2001.
7. Khullar, DR: *Physical Geography (Atmosphere and Hydrosphere) and Practical Geography*, Kalyani Publishers, Delhi, 2019.
8. King, C. A. M.: *Oceanography*, E. Arnold, London, Latest Edition.
9. Lal, D. S. : *Jalvayu Vigyan*, Prayag Pustak Bhavan, Allahabad, 2006.
10. Lal, D.S.: *Climatology*, Mc Graw Hill, New York, 2005.
11. Monkhouse, F.J.: *The Principals of Physical Geography*, University of London Press, London, 2001.
12. Sharma, R.C. & Valet, M.: *Oceanography for Geographer*, Chetyna Allahabad, 1970.
13. Singh, Malkeet: *Physical Geography* (Punjabi Medium), Rashmeet Publication, Jalandhar.
14. Singh, Savindra: *Climatology*, Prayag Pustak Bhavan, Allahabad, 2004.
15. Trewartha, GT: *An Introduction to climate*, McGraw Hill Book Co., New Delhi.

Mata Gujri College (Autonomous)
Fatehgarh Sahib
Session: 2023-24
B.A Part-I (Semester-II)
Geography
Paper – B: Practical Geography: Cartography and Weather Maps
Paper Code: BA-201P

Total Course Credits – 01
Maximum Marks – 30

Pass Percentage – 35%
Time Allowed: 6 Hours
Total Teaching Periods: 40

Session-I (Morning) Theory

Total Marks: 10

Time Allowed: 3 hours

Three exercises should be given; out of these, the candidate is required to attempt any two. Each exercise will carry five marks.

The Examiners will set the paper at the Centre on the spot.

Session-II (Evening) Viva Voce and Practical Record

Practical Record - 7 Marks

Report on Local Weather - 7 Marks

Viva-Voice - 06 Marks

Total Marks - 20

Note: Use of stencils and calculator is allowed.

OBJECTIVES and LEARNING OUTCOMES:

After going through this syllabus, students will be able to attain the following objectives:

- To help the students understand the directions and methods of finding North and their importance.
- To help the students to understand the importance of Weather Maps.
- To acquaint the students with local Weather and Climate.

PEDAGOGY: The use of topographical sheets of Survey of India and weather maps. A well-equipped cartographic laboratory with the necessary instruments to prepare exercises should be used.

Section – A

| | | |
|----|---------------------------|---|
| 1. | Directions | <ul style="list-style-type: none"> • Direction and Plotting of Course • Methods of finding True North with the help of Pole star, a watch and a rod |
| 2. | Enlargement and Reduction | <ul style="list-style-type: none"> • Graphic methods (Square and Triangle method) • Instrumental methods (Pantograph, Xeroxing and Photographic) |

Section – B

| | | |
|----|----------------------|---|
| 3. | Weather maps | <ul style="list-style-type: none"> • General introduction to the study of weather maps • weather symbols employed in Indian daily weather report • Interpretation of Indian daily weather report |
| 4. | Local Weather Report | <ul style="list-style-type: none"> • A Brief Weather Report of 10-12 pages. |

Books Recommended:

1. Khullar, D.R.: *Essentials of Practical Geography*, New Academic Publishing Co., Jalandhar, 2009.
2. Monkhouse, F.J.: *Maps and Diagrams*, Methuen & Co., London, 1994 reprint.
3. Mishra, R. P. and Ramesh, A.: *Fundamentals of Cartography*, Concept Publishing Co., New Delhi, 1989.
4. Robinson, A. H.: *Elements of Cartography*, John Wiley, New York, 1995.
5. Singh, Gopal: *Map Work & Practical Geography*, Vikas Publishing House Pvt. Ltd., New Delhi, 1995.
6. Singh, L. R & Singh, Raghunandan: *Map Work and practical Geography*, Central Book Depot, Allahabad (1993).
7. Sharma, J. P. : *Prayogmak Bhugol ki Rooprekha*, Rastogi Publications, Meerut, 2010.
8. Singh, Malkeet: *Cartography* (Punjabi Medium), Rashmeet Publication, Jalandhar.
9. Tikha, R.N.: *Cartography and Practical Geography* (Punjabi Medium), Punjab State University Text Book Board.

Mata Gujri College (Autonomous)
Fatehgarh Sahib
Session: 2023-2024
B.A. Part-II (Semester-III)
Geography
Paper-B: Practical Geography: Cartography
Paper Code: B.A.-310P

Total Course Credits – 01
Maximum Marks – 30

Pass Percentage – 35%
Time Allowed: 6 Hours
Total Teaching Periods: 40

Session-I (Morning) Theory

Total Marks: 12

Time Allowed: 3 hours

Three exercises should be given; out of these, candidates are required to attempt any two. Each exercise will carry 6 marks.

The paper will be set by the Examiners at the Centre on the spot.

Session-II (Evening) Viva Voce and Practical Record

Practical Record- 10 Marks

Viva-Voice-08 Marks

Total Marks- 18

Note: Use of stencils and calculator is allowed.

OBJECTIVES and LEARNING OUTCOMES:

After going through this syllabus, students will be able to attain the following objectives:

- To enable students to represent the Geographical data with the help of diagrams.
- To provide training in applying various graphical methods of depicting geographic data.

PEDAGOGY: The teacher should train the students in the use of symbols to depict various types of geographic data.

Section – A

| Sr. No. | Topics | Sub-topics |
|---------|------------------------------------|--|
| 1. | Symbolization of Geographical Data | <ul style="list-style-type: none"> • Point symbols (Dot, Circle and Sphere) • Isopleths and Flow lines • Choropleth • Use of computers in geographical data representation |

Section – B

| | | |
|----|--|--|
| 2. | Exercises on: 1) Population data 2) Agricultural data and Industrial data 3) Transport data | <ul style="list-style-type: none"> • Distribution, Density, Growth and Literacy • Land utilization, distribution of crops; growth and production of industry • Traffic Flow |
|----|--|--|

Books Recommended:

1. Khullar, D.R.: *Essentials of Practical Geography*, New Academic Publishing Co., Jalandhar, 2009.
2. Monkhouse, F.J.: *Maps and Diagrams*, Methuen & Co., London, 1994 reprint.
3. Mishra, R.P. and Ramesh A.: *Fundamentals of Cartography*, Concept Publishing Company, New Delhi, 1989.
4. Rather, G.M.: *A Text of Practical Geography*, Arina Publishers, New Delhi, 2011.
5. Robinson, A.H.: *Elements of Cartography*, John Wiley, New York, 1995.
6. Sarkar, Asish: *Practical Geography: A Systematic Approach*, 2nd Edition, Orient Blackswan, Hyderabad, 2011.
7. Singh, Malkit: *Cartography (in Punjabi)*, Rasmeet Prakashan, Jalandhar, 2007.
8. Singh, R.I., Dutt, P.K.: *Elements of Practical Geography, Students Friends*, Allahabad, 1968.
9. Singh, R.L. and Singh P.B. Rana: *Elements of Practical Geography*, Kalyani Publishers, Ludhiana, 2009.
10. Singh, Gopal: *Map Work & Practical Geography*, Vikas Publishing House Pvt. Ltd., New Delhi, 1995.
11. Singh, L.R & Singh, Raghunandan: *Map Work and Practical Geography*, Central Book Depot, Allahabad, 1993.

Mata Gujri College (Autonomous)
Fatehgarh Sahib
Session: 2023-24
B.A. Part-II (Semester-III)
Geography
Paper-A: Geography of Resources and Environment
Paper Code: B.A.-310

Total Course Credits – 03
Maximum Marks – 70
Theory - 50 Marks
Internal Assessment - 20 Marks

Pass Percentage – 35%
Time Allowed: 3 Hours
Total Teaching Periods: 60

INSTRUCTIONS FOR THE PAPER SETTER

- (i) The question paper will consist of three sections: A, B and C. Sections A and B will have four questions each from the respective sections of the syllabus and will carry 8 marks each (Total 32 Marks). The students are required to attempt any two from each section. Section C will consist of 09 short answer type questions covering the entire syllabus uniformly. The student shall attempt all short questions in about 20-25 words. Each short answer type question carries 2 marks (Total 18 marks).
- (ii) The paper setter should mention that the use of outlined stencils of the world/continents/countries by the candidates is allowed.

INSTRUCTIONS FOR THE CANDIDATES

- (i) Candidates are required to attempt two questions each from sections A and B of the question paper and the entire section C is compulsory.
- (ii) Candidates are allowed to use outlined stencil maps of the world/continents/countries. They are also allowed to use simple calculators.
- (iii) Credit will be given for suitable maps and diagrams.

DISTRIBUTION OF INTERNAL ASSESSMENT MARKS

- (i) 5 marks will be awarded on the basis of attendance and performance in class.
- (ii) 5 marks will be awarded for submission of an assignment of 8-10 pages (Topic: Map filling exercise).
- (iii) 10 marks will be awarded as per the performance of the student in written tests (MST). There will be two tests in each semester.

OBJECTIVES and LEARNING OUTCOMES:

After going through this syllabus, students will be able to attain the following objectives:

- (i) To study the interrelationship of geography, resources and environment.
- (ii) To acquaint the students with the challenges related to conservation and management of resources.
- (iii) To understand various global environmental issues and their geographical analysis.

PEDAGOGY: Maximum use of maps of the distribution of resources and other modern aids.

Section- A

| Sr. No. | Topics | Subtopics |
|---------|------------------------------|---|
| 1. | Geography of Resources | <ul style="list-style-type: none"> • Definition • Nature, Scope and Significance • Classification of Resources |
| 2. | Mineral and Energy Resources | <ul style="list-style-type: none"> • Distribution, economic and environmental significance, international trade and conservation of Iron Ore, Copper, Coal and Mineral Oil |
| 3. | Forest Resources | <ul style="list-style-type: none"> • Types, distribution, environment and economic significance and conservation |
| 4. | Soil Resources | <ul style="list-style-type: none"> • Types, distribution, significance, soil degradation and conservation |
| 5. | Water Resources | <ul style="list-style-type: none"> • Hydro Power • Utility, significance and sustainability • Water crisis and Man |

Section – B

| | | |
|-----|---|---|
| 7. | Human Resources | <ul style="list-style-type: none"> • Quantitative and qualitative aspects of population (distribution, density, growth, literacy and urbanization) |
| 8. | Population -Resources Relationship | <ul style="list-style-type: none"> • Population – Resource regions of the World |
| 9. | Introduction to Environmental Geography | <ul style="list-style-type: none"> • Definition and Significance • Man-Environment Relationship |
| 10. | Emerging Environmental Issues | <ul style="list-style-type: none"> • Air Pollution • Water Pollution • Population Explosion • Food Security: Concepts, Measurements, Need, Policies (with special reference to PDS) • Depleting Biodiversity |

TEACHER LEARNING ACTIVITIES:

1. Online/Offline Quizzes.
2. Assignments.
3. Visual demonstration of studies material.

4. Workshop on Google Earth.

Books Recommended:

1. Agarwal, A. et al.: *The Citizen's Fifth Report*, Centre for Science and Environmental, New Delhi, 1999.
2. Chandna, R.C.: *A Geography of Population*, Kalyani Publishers, Ludhiana, 2009.
3. Chandna, R.C.: *Environmental Awareness*, Kalyani Publishers, New Delhi, 1998.
4. Chandna, R.C.: *Environmental Geography*, Kalyani Publishers, Ludhiana, 1996.
5. Chawla, I.N.: *Geography of Resources*, Bharat Prakashan, Jalandhar, Latest Edition 2006.
6. Cutter S. N., Renwich H. L. and Renwick W.: *Exploitation, Conservation, Preservation: A Geographical Perspective on Natural Resources Use*, John Wiley and Sons, New York, 1991.
7. Gautam, Alka: *Geography of Resources: Exploitation Conservation Preservation*, Sharda Pustak Bhawan, Allahabad.
8. Husain, Majid: *Human Geography*, Rawat Publications, New Delhi, 1994.
9. Kates, R.W. & Burton, I. (Eds.): *Geography, Resources and Environment*, Vol. I & II, University of Chicago Press, Chicago, 1986.
10. Misra, A.: *Environmental Studies*, Selective and Scientific Books, New Delhi, 2004.
11. Saxena, H.M.: *Environmental Geography*, Rawat Publications, Jaipur and Delhi.
12. Singh, Savindra: *Environmental Geography*, Prayag Pustak Bhavan, Allahabad, 2000.
13. Singh, Malkit: *Geography of Resources and Environment* (in English and Punjabi), Rasmeet Prakashan, Jalandhar, 2001.
14. Zimmerman, E.W.: *World Resources and Industries*, Harper, New York.

Mata Gujri College (Autonomous)
Fatehgarh Sahib
Session: 2023-24
B.A Part-II (Semester-IV)
Geography
Paper-A: Geography of Punjab
(Paper Code: B.A.-410)

Total Course Credits – 03
Maximum Marks – 70
Theory - 50 Marks
Internal Assessment - 20 Marks

Pass Percentage – 35%
Time Allowed: 3 Hours
Total Teaching Periods: 60

INSTRUCTIONS FOR THE PAPER SETTER

- (i) The question paper will consist of three sections: A, B and C. Sections A and B will have four questions each from the respective sections of the syllabus and will carry 8 marks each (Total 32 Marks). The students are required to attempt any two from each section. Section C will consist of 09 short answer type questions covering the entire syllabus uniformly. The student shall attempt all short questions in about 20-25 words. Each short answer type question carries 2 marks (Total 18 marks).
- (ii) The paper setter should mention that the use of the outlined stencils of the world/continents/countries by the candidate is allowed.

INSTRUCTIONS FOR THE CANDIDATES

- (i) Candidates are required to attempt two questions each from sections A and B of the question paper and the entire section C is compulsory.
- (ii) Candidates are allowed to use outlined stencils of world/continents/countries. They are also allowed to use simple calculators.
- (iii) Credit will be given for suitable maps and diagrams.

DISTRIBUTION OF INTERNAL ASSESSMENT MARKS

- (i) 5 marks will be awarded on the basis of attendance and performance in class.
- (ii) 5 marks will be awarded for submission of an assignment of 8-10 pages (Topics: Map filling exercise).
- (iii) 10 marks will be awarded as per the performance of the student in written tests (MST). There will be two tests in each semester.

OBJECTIVES and LEARNING OUTCOMES:

After going through this syllabus, students will be able to attain the following objectives:

- (i) To acquaint the students with the Geography of the State of Punjab.
- (ii) To provide a comprehensive understanding of Punjab's geographical dimensions: Political, Physical and Cultural.
- (iii) To know about Punjab's human and economic resource base.
- (iv) To identify the current trends and problems faced by Punjab State.

PEDAGOGY: Maximum use of regional maps of Punjab and field visits to important places.

Section – A

| Sr.No. | Topics | Sub Topics |
|--------|--------------------|--|
| 1. | Introduction | <ul style="list-style-type: none"> • Geographical and Relative Location • Evolution of the state • Administrative divisions • Salient features of Punjab's culture |
| 2. | Relief | <ul style="list-style-type: none"> • The Shivaliks • The Kandi • The Plains • The Bet area • The Sand Dune studded South |
| 3. | Drainage | <ul style="list-style-type: none"> • Main Rivers of Punjab |
| 4. | Climate | <ul style="list-style-type: none"> • Summer, Winter and Monsoon season |
| 5. | Natural Vegetation | <ul style="list-style-type: none"> • Types, distribution and conservation |
| 6. | Power Resources | <ul style="list-style-type: none"> • Distribution and production of Hydropower and Thermal power |
| 7. | Population | <ul style="list-style-type: none"> • Distribution • Density • Growth • Urbanization • Literacy • Sex Ratio |

Section – B

| | | |
|-----|---------------------|--|
| 8. | Agriculture | <ul style="list-style-type: none"> • Salient features of Punjab's agriculture • Major crops (Rice, Wheat, Cotton and Sugarcane) • Problems of Punjab's agriculture • Agro-climatic regions |
| 9. | Industry | <ul style="list-style-type: none"> • Locational factors, distribution and problems faced by Cotton Textile Industry, Hosiery Industry and Sugar Industry |
| 10. | Transport | <ul style="list-style-type: none"> • Road • Rail • Airways |
| 11. | Regional Geography | <ul style="list-style-type: none"> • Main characteristics of Majha, Doaba and Malwa. |
| 12. | Contemporary Issues | <ul style="list-style-type: none"> • Underground water table • Soil erosion |

TEACHER LEARNING ACTIVITIES:

1. Online/Offline Quizzes.
2. Assignments.
3. Visual demonstration of studies material.
4. Field Work/Educational Tour.

Books Recommended:

1. Mankoo, Darshan Singh: *Geography of Punjab*, Kalyani Publications, Ludhiana, 2009.
2. Mavi, H.S. and Tiwana, D.S: *Geography of Punjab*, National Book Trust Delhi, 1993.
3. Singh, R.L. (Ed.): *India: A Regional Geography*, National Geographical Society Of India, 1990.
4. Spate, O.H.K and A.T.A Learmouth: *India & Pakistan: Land, People and Economy*, Methuen, London, Latest Edition.
5. Singh, Malkit: *Geography of Punjab (in Punjabi)*, Rasmeeet Prakashan, Jalandhar, 2007
6. Singh, Pritam: *Punjab's Economy: Emerging Patterns*, Enkay Publishers, New Delhi, 1995.
7. Singh, Jaspal: *Geography of Punjab*, Twenty First Century Publishers, Patiala, 2014.
8. Gupta, S.P.: *The Punjab Overview*, ESS PEE Publication, Chandigarh, 2004.
9. Economic and Statistical Organization of Punjab: *Statistical Abstract of Punjab*, Chandigarh, 2014.
10. Deshpande, C.D.: *India: A Regional Interpretation*, Indian Council of Social Science Research, New Delhi, 1992.
11. Gosal, G.S. & Gopal Krishan: *Regional Disparities in Level of Socio-Economic Development in Punjab*, Vishal Publications, Kurukshetra, 1984.
12. Singh Pritam: *Punjab Economy: The Emerging Patterns*, Enkay Publishers, New Delhi, 1995.

Mata Gujri College (Autonomous)
Fatehgarh Sahib
Session: 2023-24
B.A Part III (Semester – V)
Geography
Paper –B: Practical Geography – Map Projections
Paper Code: B.A.-510P

Total Course Credits – 01
Maximum Marks – 30

Pass Percentage – 35%
Time Allowed: 3 Hours
Total Teaching Periods: 40

Session – 1 (Morning) Theory

Time Allowed: 3 Hours

Total Marks – 12

Three exercises should be given; out of these, the candidate is required to attempt any two. Each exercise will carry 06 marks.

The paper will be set by the examiner at the centre on the spot.

Session – II (Evening) Viva-Voce and Practical Record

Practical Record - 10 marks

Viva - Voce – 08 Marks

Total Marks – 18

OBJECTIVES and LEARNING OUTCOMES:

After going through this syllabus, students will be able to attain the following objectives:

- To help students to understand the importance and construction of map projections.
- To enable the students to use various projections.

PEDAGOGY: Basic fundamentals of map projections are introduced by demonstration of construction exercises in class.

Section - A

| Sr. no. | Topics | Subtopics |
|---------|-------------------------|--|
| 1. | Map Projections | <ul style="list-style-type: none"> • General introduction and classification of projections • General principles of identification • Choice of projections |
| 2. | Cylindrical Projections | <ul style="list-style-type: none"> • Construction, properties and limitations of Plate Carree, Equal Area, and Mercator's projection. |
| 3. | Conical Projections | Construction, properties and limitations of:- <ul style="list-style-type: none"> • One Standard Parallel Conical • Two Standard Parallel Conical • Bonne's Projection |

Section - B

| | | |
|----|--|---|
| 4. | Zenithal Projections (Polar cases only) | Construction, properties and limitations of:- <ul style="list-style-type: none"> • Gnomonic • Stereographic • Orthographic |
| 5. | Conventional Projections (Normal cases only) | <ul style="list-style-type: none"> • Sinusoidal • Mollweide's |

Books Recommended:

1. Garnett, William: *Map Projections*, George Philip and Sons, London.
2. Kellaway, George P.: *Map Projections*, Methuen and Co., London.
3. Khullar D.R.: *Practical Geography* (in Hindi and English), Kalyani Publishers, 2015.
4. Richardus, P., Kazimierz, Adler, R.K.: *Map Projections for Geodesists, Cartographers and Geographers*, Elsevier Science Publishing, 1972.
5. Singh, Gopal: *Map Work & Practical Geography*, Surjeet Book Depot, Delhi, 1993.
6. Singh, L.R. and Singh, Raghunandan: *Map Work & Practical Geography*, Central Book Depot, Allahabad, 1993, Reprint.
7. Steers, J.A: *Map Projections*, University of London Press, London.
8. Singh, Malkit: *Cartography (in Punjabi)*, Rasmeeth Prakashan, Jalandhar, 2007.

Mata Gujri College (Autonomous)
Fatehgarh Sahib
Session: 2023-24
B.A Part III (Semester-V)
Geography
Paper-A: World Regional Geography
(Paper Code: B.A.-510)

Total Course Credits – 03
Maximum Marks – 70
Theory - 50 Marks
Internal Assessment - 20 Marks

Pass Percentage – 35%
Time Allowed: 3 Hours
Total Teaching Periods: 60

INSTRUCTIONS FOR THE PAPER SETTER

- (i) The question paper will consist of three sections: A, B and C. Sections A and B will have four questions each from the respective sections of the syllabus and will carry 8 marks each (Total 32 Marks). The students are required to attempt any two from each section. Section C will consist of 09 short answer type questions covering the entire syllabus uniformly. The student shall attempt all short questions in about 20-25 words. Each short answer type question carries 2 marks (Total 18 marks).
- (ii) The paper setter should mention that the use of outlined stencils of the world/continents/countries by the candidates are allowed.

INSTRUCTIONS FOR THE CANDIDATES

- (i) Candidates are required to attempt two questions each from sections A and B of the question paper, and the entire section C is compulsory.
- (ii) Candidates are allowed to use outlined stencils of the world/continents/countries/regions. They are also allowed to use simple calculators.
- (iii) Credit will be given for suitable maps and diagrams.

DISTRIBUTION OF INTERNAL ASSESSMENT MARKS

- (i) 5 marks will be awarded on the basis of attendance and participation in class.
- (ii) 5 marks will be awarded for submission of an assignment of 8-10 pages (Topic: Map filling exercise).
- (iii) 10 marks will be awarded as per the performance of the student in written tests (MST). There will be two tests in each semester.

OBJECTIVES and LEARNING OUTCOMES:

After going through this syllabus, students will be able to attain the following objectives:

- World Regions in terms of constituent countries, location and salient physical features.
- Human Resource Base and their interface with economic development.
- Development problems and future prospects.
- To prepare the students for competitive exams.

PEDAGOGY: The teacher should use detailed maps of the countries and continents and other modern teaching aids, i.e. PowerPoint presentations, Video shows, etc. Students should be encouraged to use the atlas in the classroom.

Section - A

| Sr.No. | Topics | Sub-topics |
|--------|---------------|---|
| 1. | Anglo America | <ul style="list-style-type: none"> • Introduction • Relief and Drainage system • Climate • Agriculture (with special reference to Wheat, Maize & Cotton) • Minerals (Iron ore, Coal and Hydro-electricity) • Population (Distribution, Growth and Urbanization) • Industry (Iron and Steel Industry and Automobile Industry) |
| 2. | Latin America | <ul style="list-style-type: none"> • Introduction • Relief • Drainage system • Natural Vegetation • Agriculture (with special reference to Coffee and Sugarcane) • Minerals (Iron ore, Copper and Aluminum) |

Section – B

| | | |
|----|----------------------|---|
| 3. | Europe | <ul style="list-style-type: none"> • Introduction • Relief • Agriculture (Wheat and Dairy) • Fisheries • Power resources (Coal and Hydro-electricity) • Industries (Cotton Textile, Woolen Textile and Shipbuilding industry) |
| 4. | Australia | <ul style="list-style-type: none"> • Introduction • Relief • Climate • Main Minerals • Agriculture • Population (Distribution and Density) |
| 5. | Map Filling Exercise | <ul style="list-style-type: none"> • Map covering the entire syllabus |

TEACHER LEARNING ACTIVITIES:

1. Online/Offline Quizzes.
2. Assignments.
3. Visual demonstration of studies material.
4. Workshop on Google Earth.
5. PPT Presentation.

Books Recommended:

1. Baerwald, T.J and C. Fraser: *World Geography: A Global Perspective*, Prentice Hall, New Jersey, 1995.
2. Blij, Harm J. de Peter, O. Miller: *Geography: Regions and Concepts*, John Wiley, New York, 1993.
3. Cairns, G.O. et al.: *Australia*, Macmillan Co. New York, 1962.
4. Don R. Hoy (Ed.): *Essentials of Geography and Development*, Macmillan, New York, 1980.
5. English, Paul Ward and James, A. Miller: *World Regional Geography: A Question of Place*, John Wiley, New York, 1989.
6. Gilbert, Alan: *Latin American Development: A Geographical Perspective*, Harwood Academic Publishers, London, 1974.
7. Gottman, Jean: *A Geography of Europe*, Harrap & Co. London, 1969.
8. Hussain, Majid: *Vishv Bhugol*, Rawat Publications, 2010.
9. Hussain, Majid: *World Regional Geography*, Rawat Publications, Jaipur, 2009.
10. Jackson, Richard H. and Lloyd, E. Hudman: *World Regional Geography: Issues for Today*, John Wiley, New York 1991.
11. Kromm, D. E.: *World Regional Geography*, Saunders Publishing, New York, 1980.
12. Mankoo, Darshan Singh: *A Regional Geography of the World*, Kalyani Publishers, Ludhiana; 2006.
13. National Geographic Concise Atlas of the World, 4th Edition, National Geographic, 2016.
14. Oxford Student Atlas for India, 4th Edition, Oxford University Press, 2022.
15. Singh, Malkit: *World Regional Geography*, (in Punjabi) Rasmeem Prakashan, Jalandhar, 2007.
16. Spate, O.H.K and Learmonth, A.T.A: *India and Pakistan, Land, People and Economy*, Methuen, London, Latest Edition.
17. Team Prabhat: *Concise India & World Geography* (for competitive exams), Prabhat Prakashan, 2020.
18. Trikha, R.N., Bali, P.K. and Sekhon, M.S.: *World Regional Geography*, New Academic Publishers, 2007.

Mata Gujri College (Autonomous)
Fatehgarh Sahib
Session: 2023-24
B. A. Part – III (Semester – VI)
Paper –A: Geography of India
(Paper Code: B.A.-610)

Total Course Credits – 03
Maximum Marks – 70
Theory - 50 Marks
Internal Assessment - 20 Marks

Pass Percentage – 35%
Time Allowed: 3 Hours
Total Teaching Periods: 60

INSTRUCTIONS FOR THE PAPER SETTER

- (i) The question paper will consist of three sections: A, B and C. Sections A and B will have four questions each from the respective sections of the syllabus and will carry 8 marks each (Total 32 Marks). The students are required to attempt any two from each section. Section C will consist of 09 short answer type questions covering the entire syllabus uniformly. The student shall attempt all short questions in about 20-25 words. Each short answer type question carries 2 marks (Total 18 marks).
- (ii) The paper setter should mention that the use of outlined stencils of the world/continents/countries by the candidates is allowed.

INSTRUCTIONS FOR THE CANDIDATES

- (i) Candidates are required to attempt two questions each from sections A and B of the question paper, and the entire section C is compulsory.
- (ii) Candidates are allowed to use outlined stencils of world/continents/countries. They are also allowed to use simple calculators.
- (iii) Credit will be given for suitable maps and diagrams.

DISTRIBUTION OF INTERNAL ASSESSMENT MARKS

- (i) 5 marks will be awarded on the basis of attendance and participation in class.
- (ii) 5 marks will be awarded for submission of an assignment of 8-10 pages (Topic: Map filling exercise).
- (iii) 10 marks will be awarded as per the performance of the student in written tests (MST). There will be two tests in each semester.

OBJECTIVES and LEARNING OUTCOMES:

After going through this syllabus, students will be able to attain the following objectives:

- (i) To acquaint the students with the geography of our country.
- (ii) To provide a comprehensive understanding of India's Geographical dimensions: Political and physical.
- (iii) To know about India's human and economic resources base.
- (iv) To prepare the students for competitive exams.

PEDAGOGY: Teachers should use maps and other modern aids like PPTs, video shows, etc. Students should be encouraged to use the atlas in the classroom.

Section - A

| Sr. No. | Topics | Subtitles |
|---------|-----------------------|--|
| 1. | Introduction | <ul style="list-style-type: none"> • India in the context of South Asia, Asia and the World. |
| 2. | Relief | <ul style="list-style-type: none"> • The Northern Mountains • The Great Plains • The Deccan Plateau • The Coastal Plains • The Islands |
| 3. | Drainage | <ul style="list-style-type: none"> • The Himalayan Rivers • The Peninsular Rivers • Inland Drainage System |
| 4. | Climate | <ul style="list-style-type: none"> • Factors affecting the Climate of India • Main Seasons of India |
| 5. | Natural Vegetation | <ul style="list-style-type: none"> • Types and distribution • Importance of forests for India |
| 6. | Soils and Agriculture | <ul style="list-style-type: none"> • Major types of Soils • Salient features of Indian agriculture • Major Crops (Rice, Wheat, Tea, Jute) • Green Revolution • Problems of Indian Agriculture |

Section – B

| | | |
|-----|------------------------------|--|
| 7. | Minerals and Power Resources | <ul style="list-style-type: none"> • Distribution and production of Iron ore, Mica, Coal and Mineral Oil. |
| 8. | Population | <ul style="list-style-type: none"> • Distribution • Density • Growth • Sex Ratio • Literacy • Population Problems and Policies |
| 9. | Major Industries | <ul style="list-style-type: none"> • Locational factors, distribution and problems faced by the Iron and steel industry, Cotton textile industry and Sugar industry. |
| 10. | Transport System | <ul style="list-style-type: none"> • Railways, Roads, Waterways, Ports and Airways |
| 11. | Map Filling Exercise | <ul style="list-style-type: none"> • Map covering the entire syllabus |

TEACHER LEARNING ACTIVITIES:

1. Online/Offline Quizzes.
2. Assignments.
3. Visual demonstration of studies material.
4. Field Work/Educational Tour.
5. PPT Presentation.

Books Recommended:

1. Chopra S.N.: *India: An Area Study*, Vikas Publishing House, 1977.
2. Deshpande, C.D.: *India: A Regional Interpretation*, India Council of Social Science Research, New Delhi, 1992.
3. Hussain, Majid: *Geography of India*, Tata McGraw-Hill, Delhi, 2013.
4. Johnson, B.L.C.: *India: Resources and Development*, Arnold Heinemann, London, 1980.
5. Johnson, B.L.C.: *South Asia*, Heinemann, London, 1981.
6. Khullar, D.R.: *India: A comprehensive Geography*, Kalyani Publishers, New Delhi, 2013.
7. Malkit Singh: *Geography of India*, Rasmeet Publication, Jalandhar. 2013.
8. Nag, P. Sengupta, S.: *Geography of India*, Concept Publishing Company 1992.
9. Oxford School Atlas, 36th Edition, Oxford University Press, 2020.
10. Oxford Student Atlas for India, 4th Edition, Oxford University Press, 2022.
11. Singh, R.L (Ed.): *India: A Regional Geography*, National Geographical Society of India, Varanasi, 1971.
12. Singh, Jagdish: *India: A Comprehensive Systematic Geography*, Gynodaya Prakashan, Gorakhpur, 1994.
13. Singh, Gopal: *A Geography of India*, Atma Ram and Sons, Delhi, 1995.
14. Sharma, T.C and Countinho, O.: *Economic and Commercial Geography of India*, Vikas, Delhi, 1991.
15. Spate, O.H.K. and Learmonth A.T.A: *India and Pakistan, land, People and Economy*, Meuthen London, latest Edition.
16. Tirtha, Ranjit and Gopal Krishan: *Emerging India*, Conpub Ann Arbour, Publishers, Michigan, 1992.
17. Tiwari, R.C. *Geography of India*, Pravalika Publications, Allahabad, 2013.
18. Team Prabhat: *Concise India & World Geography (for competitive exams)*, Prabhat Prakashan, 2020.

PAPER CODE: B.A.-610P

Mata Gujri College (Autonomous)
Fatehgarh Sahib
Session: 2023-24
B.A Part III (Semester – VI)
Geography
Paper –B: Practical Geography: Field Methods in Geography
Paper Code: B.A.-610P

Total Course Credits – 01
 Maximum Marks – 30

Pass Percentage – 35%
 Time Allowed: 6 Hours
 Total Teaching Periods: 40

Session – 1 (Morning) Theory

Total Marks – 12

Time Allowed: 3 Hours

Three exercises should be given; out of these, candidates are required to attempt any two. Each exercise will carry 06 marks.

The paper will be set by the examiner at the centre on the spot.

Session – II (Evening) Viva-voce and Field Work Report

Field Report - 10 marks

Viva - Voce – 08 Marks

Total Marks – 18

OBJECTIVES and LEARNING OUTCOMES:

After going through this syllabus, students will be able to attain the following objectives:

- To prepare the students for carrying out fieldwork.
- To encourage the students for academic writing.
- To have a bird's eye view of Remote Sensing and GIS.

PEDAGOGY: The students need to be trained to collect primary data, its processing and cartographic representation through taking up field exercises.

Section – A

| Sr. No. | Topic | Sub Topics |
|---------|--|--|
| 1. | Brief Introduction to Remote Sensing and GIS | <ul style="list-style-type: none"> • Definition and Meaning of Remote Sensing and GIS. |
| 2. | Field Work (Theory) | <ul style="list-style-type: none"> • Nature, Scope and Significance of Field Studies • Role of fieldwork in geography • Scale of study and fieldwork methodology • Data and its types • Methods of field study of: a farm, a village and a town |

Section – B

| | | |
|----|---|---|
| 3. | Project Report based on socio-economic survey (15-20 written pages) | <p>The field report will be based on primary and secondary data on problems such as:</p> <ul style="list-style-type: none"> • Local Market Survey • The service area of school/college/hospital • Traffic flow • Socio-economic characteristics of students of village/ mohalla • Land use • Environment study. |
|----|---|---|

Book Recommended:

1. Hudson, F. S.: *A Geography of Settlements*, MacDonal, London, 1970.
2. Singh, Gopal: *Map Work & Practical Geography*, Surjeet Book Depot, Delhi, 1993.
3. Singh, L.R. and Singh, Raghunandan: *Map Work & Practical Geography*, Central Book Depot, Allahabad, 1993, Reprint.
4. Steers, J.A.: *Map Projections*, University of London Press, London.
5. Singh, Malkit: *Cartography (in Punjabi)*, Rasmeet Prakashan, Jalandhar, 2007.
6. Jones, P.A.: *Fieldwork in Geography*, Longman, London, 1968.
7. Archer, J.E. & Dalton, T.H.: *Fieldwork in Geography*, E.T. Batsford Ltd., London, 1968.
8. Bhatta, Basudeb: *Remote Sensing and GIS*, Oxford, 2nd Edition, New Delhi, 2011.
9. Guha, P.K.: *Remote Sensing for The Beginner*, East-West Press, 3rd Edition, New Delhi, 2013.