

NEW SYLLABUS

S.Y.B.A. GEOGRAPHY

(WITH EFFECT FROM JUNE 2013)

Sem. III- G2: Human Geography

Sem. IV- G2 : Economic Geography

OR

Sem. III- G2: Geography of Rural Settlements

Sem. IV- G2 : Geography of Urban Settlements

Sem. III- S1: Geography of Tourism

Sem. IV- S1: Geography of Travel Management

OR

Sem. III- S1: Geography of Maharashtra

Sem. IV- S1: Regional Geography of India

Annual Pattern - S2: Practical Geography

**Study of Scales, Projections and Surveying
(With the help of Plane Table and G.P.S.)**

NORTH MAHARASHTRA UNIVERSITY, JALGAON

S.Y.B.A. SEMESTER.- III

NEW SYLLABUS

(w.e.f. : June 2013)

Gg 231: G2 – HUMAN GEOGRAPHY

UNIT No.	Topic	Sub topic	Periods
	Introduction to Human Geography	I) Meaning and Definition of Human Geography. II) Nature and Scope of Human Geography. III) The Branches of Human Geography- a) Population Geography b) Cultural Geography c) Social Geography d) Economical Geography e) Political Geography f) Historical Geography IV) Relation between Man & Environment. V) Determinism and Possibilism. VI) Stop and Go determinism.	18
2	The Race of Mankind	I) Meaning and definition of race II) Physical basis of racial groups III) Classification of World Races – a) Caucasoid b) Mongoloid c) Negroid d) Australoid IV) Ethnic groups in India. V) Griffith Taylor's classification of Human Race	17
3	Forms of Adaptation of the Environment	I) Human life in Cold region-Eskimo II) Human life in Tropics: a) Equatorial region- Pigmy b) Desert region –Bushmen III) Human life in Mountainous region.	15
4	Study of Human Tribes in the World & India	(A) Human Tribes in India a) Gonds b) Bhill c) Naga (B) Right to Information Act in India	10

Weightage of Marks:

Sr.No.	Topic No.	Weightage
1	1	08
2	2	10
3	3	12
4	4	10
	Total Marks	40

Reference books:-

• **Human Geography :-**

1. Human Geography : H. R. Robinson.
2. Human Geography : A. V. Perpillow
3. Human Geography : Emry Jones
4. Text book of Principle of Human Geography : Ahirrao & Alizad

१) मानवी व अर्थिक भूगोल पब्लिकेशन, पुणे	:	प्रा. ढाके प्रा. पाटील व प्रा. भारंबे - प्रशांत
२) मानवी भूगोल	:	प्रा. करमरकर, श्री. एन. कार्लेकर
३) मानवी भूगोल हाऊस, पुणे	:	प्रा. के. डी. खातीव, मेहता पब्लिकेशन
४) मानवी भूगोल	:	प्रा. क्षिरसागर, प्रा. भागवत, प्रा. सप्तर्षि
५) मानवी भूगोल कोल्हापूर	:	प्रा. सी. टी. पवार, सप्रेम प्रकाशन,
६) मानवी भूगोल कोल्हापूर	:	डॉ. प्रकाश सावंत, फडके प्रकाशन,
७) मानवी भूगोल	:	डॉ. व्ही. टी. घारपूर, नागपूर प्रकाशन
८) मानवी भूगोल	:	डॉ. इन्मराव जगदाळे, डायमंड पब्लिकेशन, पुणे

NORTH MAHARASHTRA UNIVERSITY, JALGAON

S.Y.B.A. SEMESTER.- III

NEW SYLLABUS OF GEOGRAPHY

(w.e.f. : June 2013)

Gg 231: G-2:- GEOGRAPHY OF RURAL SETTLEMENTS

Unit No.	Topic	Sub Topic	Periods
01	Introduction to Geography of Rural Settlement	i) Definition ii) Nature and scope of rural Settlement Geography iii) Factors affecting on location of Rural Settlement. a) Physical- Relief ,Climate, Water-Supply and soil. b) Cultural c) Social d) Historical e) Economical	14
02	Shape and Patterns of Rural Settlement	i) Shape -Rectangular, Circular, Linear, Double nucleated, square, polygonal. ii) Pattern-Compact and Dispersed	15
03	Functions of Rural settlement and Service Centers	i) Function -Administrative, Cultural and Economic ii) Service Centers - Rural Service Centers and Rur-urban centers.	15
04	House Types of Rural Settlement in India.	i) Nature of Rural Settlement in India. ii) Characteristics of rural settlement in India. iii) House types in India. iv) Building material in India iv) Rural settlement in Maharashtra	16

Weightage of Marks:

Sr.No.	Topic No.	Weightage
1	1	08
2	2	10
3	3	12

4	4	10
	Total Marks	40

References Books:

- i) K.Siddhertha and S.Mukherjee, "Geography Volume- 1" Kisalaya publications Pvt. Limited, New Delhi.
- ii) Majid Husain, "Human Geography" Rawat Publications, Jaipur
- iii) Kumbhar Arjun, "Rural Habitat" Sumeru Prakashan , Dombivali
- iv) Mandal R.B, "Introduction to Rural settlements", Concept publishing co.New Delhi.
- v) Maurya R.D "Settlement system in India- Rural", Chug publication Allahbad.
- vi) Panda P.C "Geomorphology and Rural Settlement in India" Chug publication Allahbad.
- vii) Singh R.Y. "Geography of Settlement" Ravat Publication Jaipur.

मराठी पुस्तके :

- १- डॉ. विठ्ठल घारपुरे - "वस्ती भूगोल" पिंपळापुरे अॅन्ड कंपनी पब्लीशर्स नागपुर.
- २- अहिरराव, वराट, धाकटे, अलिझाड, भोस "आधिवास भूगोल", निराली प्रकाशन पुणे.
- ३- डॉ.सुरेश फुले "वस्ती भूगोल", विदयाबुक पब्लीशर्स औरंगाबाद.

NORTH MAHARASHTRA UNIVERSITY, JALGAON
S.Y.B.A. SEMESTER.- III, NEW SYLLABUS OF GEOGRAPHY

(w.e.f. : June 2013)

Gg 232: S1 : GEOGRAPHY OF TOURISM

Course Objectives:

- 1) To develop and communicate basic conceptual framework of Geo -Tourism.
- 2) To motivate for Geo -tourism practices and processes of decision-making.
- 3) To realize its potentials, as against the achieved in the Indian context.
- 4) To understand the various elements of Geo -Tourism
- 5) To evaluate the role of various organizations of Geo- tourism

UNIT No.	Topic	Sub topic	Periods
1	Concepts of Tourism	<ol style="list-style-type: none"> 1. Definitions and historical development of tourism. 2. Tourist-Traveler- Visitor- Excursionist. 3. Types and Forms of Tourism; Tourism system: Nature, 4. Components of tourism and its characteristics. 	12
2	Geo -Tourism	<ol style="list-style-type: none"> 1. Definitions, Nature and Scope of Geo-Tourism 2. Approaches of Geo-Tourism 3. Importance of Geo-Tourism 4. Natural and climatic regions of the world. Geo-park 	16
3	Motivational factors & organizations of geo-tourism:	<ol style="list-style-type: none"> 1. Natural: Relief, Climate, Vegetation, Water bodies 2. Cultural: Agricultural, Historical, Religious Archeological 3. Organizations: WTO, UNWTO, I T D C, M T D C 	15
4	Geo-tourism Impacts	<p>Positive and Negative Impacts of Tourism:</p> <ol style="list-style-type: none"> 1) Environmental: Land, Water, Noise & Air 2) Economic: Employment, Foreign exchange, 	17

		3) Social:	Trading, Increase in revenue. Gambling, Crime, Terrorism, linguistics.	
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Weightage of Marks:

Sr.No.	Topic No.	Weightage
1	1	08
2	2	10
3	3	12
4	4	10
	Total Marks	40

REFERENCE BOOKS:

- Bhatia. -Tourism Development (New Delhi, Sterling)
- Boniface B. and Cooper C. -the Geography of Travel and Tourism, Heinemann Professional Publishing. London, England 1987
- Burkart and Medlik -Tourism, Past, Present and Future Heinemann, ELBS. (1981)
- Cooper, Fletcher, Tourism, Principles and practices, Pitman. Publishing ,1993
- Dixit, M. Tourism Geography and Trends, Royal Publication
- Hall, CM and Page, SJ. - The Geography of Tourism and Recreation, Rutledge
- International Atlas, Penguin Publication and DK Publication
- Kaul: Dynamics of Tourism (New Delhi, Sterling)
- Law B. C. (ed) - Mountain and Rivers of India Calcutta, 1968.
- Mill and Morrison – The Tourism system an Introductory Text , Prentice Hall, 1992
- National Atlas of India – Government of India Publication. Additional Reference
- P.S. Gill, Dynamics of Tourism (4 Vols) Anmol Publication. New Delhi,
- P.C. Sinha, -Tourism Evolution Scope Nature & Organization. Anmol Publication. New Delhi,
- Robinson H.A.A. -Geography of Tourism, MacDonal and Evans, London.
- R. M. Desai – Strategy of food and agriculture – Bombay 1988
- Singh R. L. – Regional Geography of India, 1985
- Seth: Tourism Management (New Delhi, Sterling) Sustainable Tourism Development, Guide for Local Planners by WTO.

Marathi Medium Books:

- Bhagwat & Joshi- Payratan Bhugol,
- Bhole & Bhatewal- Payratan Bhugol, Prashant Prakashan, Jalgaon
- Gharpure V.T.- Payrtan Bhugol, Vidhya Prakashan, Nagpur
- Khatib K.A-. Payrtan Bhugol,
- Nagtode & Pardhi D.A- Payrtan Bhugol, pimpalapur Prakashan , Nagpur
- Shinde S.B. - Payrtan Bhugol, Fadake Prakashan, Kolhapur.
- Suryawnsi D.S.- Payrtan Bhugol, Pritam Prakashan, Jalgaon

**NORTH MAHARASHTRA UNIVERSITY, JALGAON
S.Y.B.A. SEMESTER.- III**

NEW SYLLABUS OF GEOGRAPHY

(w.e.f. : June 2013)

Gg 232: S-1 – GEOGRAPHY OF MAHARASHTRA

UNIT No.	Topic	Sub topic	Periods
1	Geographical Personality	<ol style="list-style-type: none"> 1. Location 2. Site, Size, Shape 3. Area 4. Administrative Division 	06
2	Physical Setting Of Maharashtra	<ol style="list-style-type: none"> A) Physical Division of Maharashtra <ol style="list-style-type: none"> 1. Kokan Region 2. Sahyadri Plateau 3. Maharashtra Plateau B) Drainage <ol style="list-style-type: none"> 1. Rivers in Kokan Region 2. Rivers in Plateau Region (Tapi-Purna Valley, Godavari Valley, Krishna basin, Pranhita Valley) 	18
3	Climate	<ol style="list-style-type: none"> 1. Characteristics of Climate 2. Factors affecting Climate 3. Seasons: 4. Distribution of Rainfall & its Characteristics 5. Climate Regions of Maharashtra 	18
4	Socio-Economic Factors in Maharashtra	<ol style="list-style-type: none"> (A) Population <ol style="list-style-type: none"> 1. Factor affecting the distribution of Population in Maharashtra 2. Population Distribution 3. Urbanization in Maharashtra (B) Agriculture <ol style="list-style-type: none"> 1. Characteristics of Agriculture 2. Major crops – Rice, Wheat, Cotton, Sugarcane. 3. Horticulture in North Maharashtra – Banana, Pomegranate 4. Agriculture problems & prospects (C) Power Resources <ol style="list-style-type: none"> 1. Conservation of conventional energy 2. Non-conventional energy in Dhule and 	18

		Nandurbar Districts a. Wind energy b. Solar energy	
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Weightage of Marks:

Sr.No.	Topic No.	Weightage
1	1	08
2	2	10
3	3	12
4	4	10
	Total Marks	40

Reference Book (English Medium)

- 1: Geography of Maharashtra : C.D. Deshpande,
 - 2: Maharashtra in Maps : K. R. Dikshit
 - 3: Maharashtra : Prof. Sawadi and Keche
 - 4: Economy of Maharashtra : S.H. Deshpande
 - 5: The economy of Maharashtra : U.G. Sahastrabudh
 - 6: Geography of Maharashtra : Jaymala Diddee, S.R. Jog, V.S. Kale, V.S. Datye
- Email: info@rawatbooks.com, www.rawatbooks.com

Marathi Medium Books

- 7: Maharashtra : Santosh Dastane
- 8: Maharashtracha Bhugol : Dr. Subhashchandra Sarang, Vidya Prakashan, Nagpur
- 9: Maharashtracha Bhugol : Pandurang Keche
- 10: Maharashtracha Bhugol : Dr. Vijaykumar Magar
- 11: Prakrutik Bhugol va Maharashtrache : Dr. S.R.Chaudhari & Dr. M.B.Chavan
Prakrutik Paryawaran

12: Manavi Bhugol Va Maharashtrache : Dr. S.R.Chaudhari & Dr. M.B.Chavan
Manavi Paryavaran

13: Maharashtracha Bhugol : Dr. Prakash Sawant

Email: customersupport@phadkebook.com www.phadkebook.com

14: Maharashtra 2008 : Dastane Ramchandra & Co. Pune

Email: santoshdastane@vsn.net

NORTH MAHARASHTRA UNIVERSITY, JALGAON

S.Y.B.A. SEMESTER.-IV

NEW SYLLABUS OF GEOGRAPHY

(w.e.f. : June 2013)

Gg 241 : G2 – ECONOMIC GEOGRAPHY

Aims & objectives to the study of economic geography:

1. To acquaint with the knowledge of economic realm in the world as well as in India
2. To study the Economic Geography as a major branch of human geography
3. To highlight the different economic activities observed in the world
4. To study mineral and power resources in the specific regions of the world.
5. To explain the trade and transport activities of the world
6. To study theory and models in economic geography

Unit	Units	Sub-units	Periods
1.	Nature and scope of Economic Geography	i) Definitions -Stated by G.D.Chisholm, Robinson, Hettner, Huntington, Prof. Smith & others ii) Nature of Economic Geography- Interdisciplinary , Dynamic, iii) Scope of Economic Geography-Vast and extensive, distribution and exploitation of natural resources and manmade resources, economic activities, iv) Approaches to the study of economic geography-Regional Approach, Commodity Approach and Principle Approach	14

2.	Theories and Models	<ul style="list-style-type: none"> i) Meaning of economic activities ii) Types of economic activities- Primary, Secondary, Tertiary and Quaternary activities with suitable Examples and their characteristics iii) Weber's Theory of Industrial Location v) Rostov's Model of Economic Development 	20
3.	Mineral and Power Resources	<ul style="list-style-type: none"> i) Distribution and production of Iron-ore and coal in USA & India. ii) Distribution and importance of thermal, hydel, solar, wind power resources (Special reference to Maharashtra State) 	12
4.	Industries and Trade	<ul style="list-style-type: none"> i) Factors of location of industries ii) Production and distribution of following Industries <ul style="list-style-type: none"> a. Engineering Industry. Japan, India and U.K. b. Cotton Textile Industry Japan, India c. Sugar Industry-India and special reference to Maharashtra State. d. Information Technology Industry U.S.A. and India. iii) Trade : <ul style="list-style-type: none"> a. Factors affecting the international trade. b. India's foreign trade. 	14
Total Periods			60

Weightage of Marks:

Sr.No.	Topic No.	Weightage
1	1	08
2	2	10
3	3	12
4	4	10
Total Marks		40

Reference Books

1. Economic Geography : John and Darkanwald.
2. Economic Geography : Alexander
3. Economic Geography : Mrs. P.N. Padey, Nirali Prakashan, Pune. ,First Edition : Nov 1994
4. Paryavaran va Arthik Kriya : Dr.S.R.Chaudhari
5. Arthik Bhugol : Prof.S.P.Pathak
6. Arthik Bhugol : Prof.Ahirrao, Prof.Alizad, Prof.Dhapte
7. Arthik Bhugol Dr.V.T.Gharpure, Pimpalpure Prakashan, Nagpure.
8. Arthik va Wyapari Bhugol : Prof.Karmarkar, Gupte, Paranjape

NORTH MAHARASHTRA UNIVERSITY, JALGAON

S.Y.B.A. SEMESTER.- III

NEW SYLLABUS OF GEOGRAPHY

(w.e.f. : June 2013)

Gg 241 : G-2:- Geography of Urban Settlements

Unit	Topic	Sub Topic	Periods
01	Introduction to Geography of Urban Settlement	i) Definition ii) Nature and scope of Urban Settlement Geography iii) Characteristics of Urban Settlement	10
02	Urbanization	i) Definition ii) Factors affecting on Urbanization iii) Problems of Urbanization iv) Urbanization in India v) Types of Urban Settlement- Urban Hamlet, Urban Village, Town, City, Metropolis, Conurbation, Megalopolis	18
03	Pattern and Function of Urban Settlement	i) Pattern – Linear, Square, Radial, Circular, Checker-board, Fragmented, Bee-hive. ii) Function – Industrial, Administrative, Political and Cultural	14

04	Morphology of Urban Settlement	i) Theories of Urban development a) Concentric Zone Theory b) The Sector Theory c) The Multiple Nuclei Theory ii) Morphological Characteristics of Indian Cities a) Mumbai b) Chandigarh c) Chennai	18
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Weightage of Marks:

Sr.No.	Topic No.	Weightage
1	1	08
2	2	10
3	3	12
4	4	10
	Total	40

References:

- i) K.Siddhertha and S.Mukherjee, "Geography Volume- 1" Kisalaya publications Pvt. Limited, New Delhi.
- ii) Majid Husain, "Human Geography" Rawat Publications, Jaipur
- iii) Majid Husain, "Urban Geography" Rawat Publications, Jaipur

मराठी पुस्तके :

- १- डॉ. विठ्ठल धारपुरे - "वस्ती भूगोल" पिंपळापुरे अँड कंपनी पब्लिशर्स नागपुर.
- २- अहिरराव, वराट, धाकटे, अलिझाड, भोस "आधिवास भूगोल", निराली प्रकाशन पुणे.
- ३- डॉ.सुरेश फुले "वस्ती भूगोल", विद्याबुक पब्लिशर्स औरंगाबाद.

NORTH MAHARASHTRA UNIVERSITY, JALGAON

S.Y.B.A. SEMESTER.- III

NEW SYLLABUS OF GEOGRAPHY

(w.e.f. : June 2013)

Gg 242: S 1 – GEOGRAPHY OF TRAVEL MANAGEMENT

Unit No.	Topic	Sub Topic	Periods
I	Role of Accommodation	1. Need of different types of Accommodation 2. Types of Accommodation 3. Hotels, Types of Hotels. 4. Motels, 5. Dharmashalas, 6. Tourist Homes, 7. Youth Hostels, 8. Rail-Yatri-Bhavans, 9. House boats, 10 Govt. Accommodations, 11 Private Accommodations	16
II	Travel Agencies	1. Definition and History of Travel Agency. 2. Functions of Travel Agencies.	06
III	Tourism Marketing	1. Concept of Marketing : a. Tourism product- b. Attraction and facilities, c. Accessibility, marketing, d. characteristics. 2. Types of Tourism Marketing a. Vocational Tourism, Business b. Tourism, common interest tourism. 3. Function of Tourism Marketing a. Marketing Research, b. Advertisement, Sales supports, c. Public relations, d. Tourism Publications	18
IV	Development and Planning	(A) Tourism Planning: (i) Tourism Planning in Developed and developing countries. (ii) Components of tourism Planning: a) Programme Implementation. b) Evaluation of national tourism attraction.	20

		<p>c) Infrastructural facilities. d) Model of tourism Planning. (B) Tourism Development: a) Development of tourism in India and Maharashtra. b) Tourism Policies of India and Maharashtra. c) Case study of following Tourist centers 1.Ajantha & Ellora 2.Tourism in Konkan 3.Temples,Churches & Beaches in Goa. 4.Major cities in Rajasthan : Jaipur, Jaislmer, Ajmer, Pushkar etc.</p>	
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Weightage of Marks:

Sr.No.	Topic No.	Weightage
1	1	08
2	2	08
3	3	10
4	4	14
	Total	40

Reference Books

1. The Geography of International Tourism : Ian M. Matley scientific publishers
Anaucla rood P.Box-91. Jodhpur.
2. Tourism Development Principles and practice: A.K.Bhatia Sterling publishers, Pvt.Ltd.
L10, Green park extension New Delhi.
3. Tourism in the 21st century. : Editor – G.K.Batra, Anmol publication pvt.ltd.
Ansari road Daryagunj – Delhi H..Robinson.
4. Geographer Tourism : H.Robinson

Marathi Medium

5. Paryatan Bhugol : Dr.S.B.Shinde, Phadke Prakashan, Kolhapur

6. Paryatan Bhugol : A.V.Bhagavat, Murlidhar Prakashan, Pune.
7. Paryatan Bhugol : K.A.Khatib, Ajab Pustakalaya, Kolhapur.
8. Paryavaran & Arthik Kriya : Prof.Dr.Shankar G. Chaudhari, Himalaya Publication
House, Mumbai
9. Chala Safarila : Vasanti Houses
- 10.Maharashtracha Bhugol : Dr.Pandurang Keche.
- 11.Maharashtracha Bhugol : K.A.Khatib
- 12.Geography of Tourism : Dr.D.S.Suryawanshi, Pritam Publisher, Jalgaon

NORTH MAHARASHTRA UNIVERSITY, JALGAON

S.Y.B.A. SEMESTER.- III

NEW SYLLABUS OF GEOGRAPHY

(w.e.f. : June 2013)

Gg 242 : S1 : REGIONAL GEOGRAPHY OF INDIA

UNIT No.	Topic	Sub topic	Periods
1	Introduction/ Geographical personality	A) Location : Site and Situation B) Adjacent countries: Economic and Political Relationship. C) Administrative Divisions: D) State wise Geographical Area	06
2	Physioigraphy	A) Physiographic divisions of India B) Relief features of: I) Himalaya II) Northern Plain (Gangetic Plane) III) Peninsular Plateau: a) Vindhyan Mountain b) Satpura Upland c) Deccan Plateau	18

		<p>d) Western Ghat IV) Coastal Plain and islands C) Drainage: i) Himalayan Drainage System ii) Peninsular Drainage System</p>	
3	Climate, Soil and Natural Vegetation	<p>Climate: A) Climatic Regions of India B) Factors Affecting Climate C) Monsoon : i) Characteristics of Monsoon ii) Branches: Bay of Bengal and Arabian Sea iii) South West and North East and Retreating Monsoon D) Distribution of Rainfall Soil: a) Major soil types b) Soil erosion and conservation. Natural Vegetation: a) Major types of vegetation b) Distribution of vegetation c) Economic importance of forest</p>	18
4	Population and Industries	<p>Population: A) Distribution of Population B) Density of Population C) Factors Affecting Distribution of Population D) State wise Capital Centers and Metropolitan Centers. Industries: A) Industrial Zones in India B) Development of Industries and Government Policy</p>	18

Weightage of Marks:

Sr.No.	Topic No.	Weightage
1	1	08
2	2	10
3	3	12
4	4	10
	Total	40

Reference :

- 1) Bharat –Santosh Dastane
- 2) Bharat Ek Pahani. Santosh Sastane,Dastane Ramchandra ani company.
- 3) Bhugol- study circle publication.
- 4) Geography of India by Majid Husen, Tata McGraw Hill pub.
- 5) Geography of India by Nag P. and S. Sengupta
- 6) India : A regional interpretation by C.D. Deshpande.



NORTH MAHARASHTRA UNIVERSITY, JALGAON

S.Y.B.A. ANNUAL PATTERN

NEW SYLLABUS OF GEOGRAPHY

(w.e.f. : June 2013)

**Gg 203: Practical : S-2 : STUDY OF SCALE, PROJECTIONS AND
SURVEYING WITH THE HELP OF PLANE TABLE AND GPS**

[Work load – 12 Students per batch and 6 periods per week]

UNIT No.	Topic	Sub topic	Periods
1	SCALES	1.1: Definition and Significance Of Scale	24

		<p>A. Methods of representing scales i. Verbal Scale ii. Numerical Scale iii. Graphical Scale B. Types of scales: i. Unit equivalent Scale ii. Dimensionless Ratio iii. Dimensionless Representative Fraction 1.2 :Conversion of scales: British and metric system 1.3 Construction of following scale [only metric system] A. Simple Graphical scale B. Time and Distance scale</p>	
2	PROJECTIONS	<p>2.1: Definition of Projection: a. Classification of Projection i. Perspective ii. Non-Perspective 2.2 : Construction, Properties and uses of Projection [Construction by graphical method only] a. Zenithal Projections i. Zenithal Polar Gnomonic Projection. ii. Zenithal Polar Stereographic Projection iii. Zenithal Polar Orthographic Projection b. Conical Projections i. Conical Projection with one standard Parallel ii. Conical Projection with two standard Parallel iii: .Bonne’s Projection c. Cylindrical Projection i. Cylindrical Equal Area Projection ii. Cylindrical Equi -distance Projection iii. Mercator’s projection. 2.3: Choice of projections : Choice of Projections for different purposes and regions</p>	36
3	PLANE TABLE SURVEY	<p>5.1: Definition of Surveying 5.2: Types of surveying i. Geodetic survey ii. Plane survey 5.3: Field work: Plane Table survey- i: Intersection Method ii: Close Traverse Method iii: Survey of area or Plot or college campus iv: Preparation of map or layout of surveyed area v: measurement of surveyed area as per the govt. survey record</p>	30

4	GPS SURVEY	4.1. Introduction to GPS, Development, Applications, 4.2. Application of GPS in the survey: i) Linear Survey of Road ii) Close survey of Plot or Ground iii) Reading of Lat-Long and Elevation and Distance of surveyed points 4.3. Preparation of Layout on graph paper (With Scale) 4.4. Field survey Report or Excursion	18
	Unit 5 FIELD REPORT	Visit to a place of Geographical interest or Census survey of village or Socio- economic survey. Students should submit a field report at the time of examination.	12

Annual: Total Period 120

Pattern of Question paper

Unit	Chapter	Types of questions	Marks
1	Scale	Sub unit- 1.1 & 1.2: Objective, Short answering question or Calculation	04
		Sub unit- 1.3: Drawing of scale	06
2	Projections	Sub unit- 2.1: Objective, Short answering question	05
		Sub unit- 2.3: Drawing of Projection	15
3	Plane Table Survey	Sub unit- 3.1 & 3.2: Objective, Short answering question	05
		Sub unit- 3.3: Field survey with the help of plane table, preparation of layout and measurement of area.	15
4	GPS Survey	Sub unit- 4.1, 4.2 & 4.3: Objective, Short answering question or Calculation & Preparation of layout	10
		Sub unit- Field survey Report or Excursion	10
	Journal	Assessment of Journal & Viva Voce	10

Reference Books

1. Elements of practical Geography : Singh & Datta.
2. Map Work and practical Geography : Gopalsing
3. Map Work and Practical : R.L.Singh abd L.R.Singh.
4. Fundamental of cartography : R.P.Mishra and A. Romesh
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