

AC 29/4/2013

Item no.4.4

UNIVERSITY OF MUMBAI



Revised Syllabus

Sem. V & Sem. VI

Program: B.A.

Course: Geography

(As per Credit Based Semester and Grading System

with effect from the academic year 2013–2014)

UNIVERSITY OF MUMBAI

Syllabus for T.Y.B.A. Geography,

Paper No. IV-Fundamentals of Physical Geography

(Credit and Grade System with effect from Academic Year 2013-14)

SEMESTER-V

COURSE CODE: UAGR401

Unit - I	<ul style="list-style-type: none">• Interior of the earth: Structure and Composition• Earthquakes and Volcanoes: causes, types, associated features and distribution• Continental drift theory: causes, evidence, criticism	Lect 15
Unit - II	<ul style="list-style-type: none">• Endogenetic forces -<ul style="list-style-type: none">▪ Mountain building : Folding, faulting and joints, causes, types and the resulting landforms• Exogenetic forces:<ul style="list-style-type: none">▪ Weathering: Mechanical-chemical-biological	15
Unit – III	<ul style="list-style-type: none">• Fluvial landforms: Work of river, erosional and depositional features• Drainage pattern: Evolution and types• Glacial landforms : Types of glaciers, erosional and depositional features	15
Unit – IV	<ul style="list-style-type: none">• Arid landforms : Environmental conditions, wind as an agent, erosional and depositional features• Coastal landforms: Work of sea waves, erosional and depositional features• Karsts landforms: Concept, role of rock structure and drainage, erosional and depositional features	15

SEMESTER-VI
COURSE CODE: UAGR402

Unit - V	<ul style="list-style-type: none">• Solar radiation<ul style="list-style-type: none">▪ Insolation :Nature of solar energy▪ Concept of Terrestrial heat balance - spatial variations• Temperature: Factors affecting on temperature distribution, vertical and horizontal distribution, concept of temperature inversion	Lect 15
Unit - VI	<ul style="list-style-type: none">• Atmospheric Pressure: Causes, relation with temperature, wind generating forces, pressure belts and their shift• Atmospheric circulation: Planetary and Local winds• Monsoon and tropical cyclones	15
Unit – VII	<ul style="list-style-type: none">• Condensation : Concept and forms of condensation• Precipitation : Types• Climatic changes : Causes and effects	15
Unit –VIII	<ul style="list-style-type: none">• Temperature and salinity of the oceans: Characteristics, differences in temperature and salinity, vertical, horizontal of Atlantic ocean• Tides- formation and types, effects of tides• Ocean currents: Currents in major oceans-Pacific	15

UNIVERSITY OF MUMBAI
QUESTION PAPER PATTERN

Paper No. IV-Fundamentals of Physical Geography
(Credit and Grade System with effect from Academic Year 2013-14)

SEMESTER-V
COURSE CODE: UAGR401
&

SEMESTER-VI
COURSE CODE: UAGR402

EXTERNAL ASSESSMENT (60 marks)

Time: 2 hours

Marks: 60

N.B. All questions are compulsory

Q.1	Unit-I / V		15 marks
		OR	
Q.1	Unit-I / V		15 marks
Q.2	Unit-II / VI		15 marks
		OR	
Q.2	Unit-II / VI		15 marks
Q.3	Unit-III / VII		15 marks
		OR	
Q.3	Unit-III / VII		15 marks
Q.4	Unit-IV / VIII		15 marks
		OR	
Q.4	Unit-IV / VIII		15 marks

INTERNAL ASSESSMENT (40 marks)

1. One assignment -	10 marks
2. One class test -	20 marks
3. Active participation+ Overall performance	5 marks+ 5marks

List of Reference Books

(Fundamentals of Physical Geography)

1. Englen, O.D. (1994) : Geomorphology, The Macmillan Company, New York
2. Negi B.S (1993) : Physical Geography, S.J. Publications, Meerut
3. Strahler Alan H. and Strahler Arther N. (1992) : Modern Physical Geography, John Willey & Sons, INC, New York
4. Majid Hussain (2001) : Fundamentals of Physical Geography, Rawat Publications, Jaipur and New Delhi
5. Trewartha, G.T (1954) : An Introduction to Climate, McGraw-Hill Book Company, London
6. Bhatt J.J. (1998) : Oceanography, Exploring the Planet Ocean, D. Von Nestrand Co. New York
7. Qazi S.A. (2009) : Principles of Physical Geography, APH Publishing Corporation, New Delhi
8. Sparks B. W. (1988) : An Introduction to Geomorphology, Longman, London
9. Dayal P. (1990) : An Text book of Geomorphology, Shukla Book Depot, Patna
10. Lal D.S. (1997) : Climatology, Sharda Pustak Bhavan, Allahabad
11. Singh Savindra (1998) : Physical Geography, Prayag Pustak Bhavan, Allahabad
12. Muller Peter O. (2003) : Physical Geography: The Global Environment Text Book & Study Guide, Oxford University Press, USA.

संदर्भ ग्रंथ (प्राकृतिक भूगोलाची मूलतत्वे)

१. प्रा. दाते (1995) : प्राकृतिक भूगोल, विद्या प्रकाशन, नागपूर.
२. डॉ. विठ्ठल घारपुरे (2001) : प्राकृतिक भूगोल, शैलजा प्रकाशन .
३. सूभाषचंद्र सारंग (2000) : प्राकृतिक भूगोल, विद्या प्रकाशन, नागपूर.
४. रजनी देशमुख (2003) : प्राकृतिक भूगोल, विद्या प्रकाशन, नागपूर.
५. यु. बी. पाठारे (2008) : प्राकृतिक भूगोल, विद्या प्रकाशन, नागपूर.
६. ए. बी. सबदी आणि कोळेकर (2008) : प्राकृतिक भूगोल, निराली प्रकाशन, पुणे.
७. कोलते, भोयर, पुराणिक (2003) : भूगोल शास्त्राची मूलतत्वे, विद्या प्रकाशन, नागपूर.
८. डॉ. जयकुमार मगर (2001) : भूरूप शास्त्राची मूलतत्वे, अकॅडेमीक इंटरप्राईज , औरंगाबाद.
९. डॉ. पाथरे आणि डॉ. राजहंस (2008) : प्राकृतिक भूगोल, विद्या प्रकाशन, औरंगाबाद.
१०. डॉ. विठ्ठल घारपुरे (2001) : प्राकृतिक भूगोलाची मूलतत्वे, पिम्पळपुरे अकॅडेमी, नागपूर.
११. अहिराव, धापटे, भोस (1998) : प्राकृतिक भूगोल, निराली प्रकाशन, पुणे.

UNIVERSITY OF MUMBAI

Syllabus for T.Y.B.A. Geography,

Paper No. V- ENVIRONMENTAL GEOGRAPHY

(Credit and Grade System with effect from Academic Year 2013-14)

SEMESTER-V

COURSE CODE: UAGR501

Unit- I

Introduction to Environmental Geography (15 lect)

Definition, Nature & Scope of Environmental Geography, Factors of environment: Natural and man-made, Man-environment relationship, Need & importance of Environmental Geography

Unit- II

Ecosystem (15lect)

Meaning, Components & Function, Bio-geo-chemical cycles: Hydrological, carbon and nitrogen -types of ecosystem: forest, grassland, desert, fresh water and marine

Unit- III

Natural Resources (15 lect)

Concept of Resources, Classification, Environmental problems associated with Forest, Water, Animals and Minerals - Conservation of resources/Sustainable use of resources.

Unit- IV

Bio-diversity (15lect)

Concept, Types, hotspots of bio-diversity, Biodiversity in India with emphasis on Western Ghat, Threat to Biodiversity and conservation

Paper No. V- ENVIRONMENTAL GEOGRAPHY

SEMESTER-VI
COURSE CODE: UAGR502

Unit- V

Pollution

(15 lect)

Concept, types, causes, impacts and measures of air, water, land and noise

Unit- VI

Environmental issues and movements

(15lect)

Natural issues: Global warming, Ozone depletion, Manmade issues: acid rain, nuclear accident -
Development projects and displacement of people - Environmental movements in India with special
reference to Maharashtra

Unit- VII

Sustainable Development

(15 lect)

Concept and need of sustainable development, Environmental issues and sustainable
development: sustainable agriculture, Energy crisis - Eco-friendly life style

Unit- VIII

Environmental Management

(15 lect)

Concept and need of environmental management, Need of Environment
education, Environmental law, Environmental impact assessment, Role of GIS,
GPS and Remote Sensing in environment management

Paper No. V- ENVIRONMENTAL GEOGRAPHY

(Credit and Grade System with effect from Academic Year 2013-14)

**SEMESTER-V
COURSE CODE: UAGR501**

&

**SEMESTER-VI
COURSE CODE: UAGR502**

EXTERNAL ASSESSMENT (60 marks)

Time: 2 hours

Marks: 60

N.B. All questions are compulsory

Q.1	Unit-I / V		15 marks
		OR	
Q.1	Unit-I / V		15 marks
Q.2	Unit-II / VI		15 marks
		OR	
Q.2	Unit-II / VI		15 marks
Q.3	Unit-III / VII		15 marks
		OR	
Q.3	Unit-III / VII		15 marks
Q.4	Unit-IV / VIII		15 marks
		OR	
Q.4	Unit-IV / VIII		15 marks

INTERNAL ASSESSMENT (40 marks)

1. One assignment -	10 marks
2. One class test -	20 marks
3. Active participation+ Overall performance	5 marks+ 5marks

References:

1. Singh Savindra, 2001: Environmental Geography Prayag Pustak Bhavan, Allahabad
2. Erach Bharucha, 2005: A Text Book of Environmental Studies, University Press (India) Private Limited, 3-5-819 Hyderguda, Hydrabad
3. Yadav M. S., 2008: Environmental Studies Arise Publishers & Distributers, 4648/1, 21, Darya Ganj, New Delhi
4. घारपूरे व्ही.टी. २०११: पर्यावरण भूगोलशास्त्र, पिपळापुरे अँड कं. पब्लिशर्स नागपूर
५. अहिरराव अलीझाड १९९९: पर्यावरण विज्ञान, निराली प्रकाशन ४१ बुधवार पेठ पुणे
६. सारंग सुभाषचंद्र १९९९: पर्यावरण भूगोल, विद्या प्रकाशन नागपूर
७. पाटील व्ही.जे. २००५: पर्यावरणशास्त्र, प्रशांत पब्लिकेशन जळगाव आणि पुणे

UNIVERSITY OF MUMBAI

Syllabus for T.Y.B.A. Geography (Practical)

Paper No. VI- Topographical ,Thematic Maps and Statistical Techniques)

(Credit and Grade System with effect from Academic Year 2013-14)

SEMESTER-V

COURSE CODE: UAGR601

Unit-I : Map-Basic

(12 lect)

Concept of Map, basic components of map, types of maps, methods of enlargement and reduction of maps- location, distance, directions - area calculation (graphical and strip method)

Unit-II : Interpretation of Topographical Maps

(11 lect)

Definition of Topographical maps, methods of showing relief and landforms, topographical map index, colour scheme used in topographical maps, conventional signs and symbols- interpretation of map : a) S.O.I. Topographical Maps, Utility of topographical maps in geographical analysis

Unit-III

Interpretation of Thematic Maps

(11 lect))

Concept, Distinguishing characteristics; various categories of thematic maps, reading and interpretation, utility of thematic maps, techniques of representation of the theme, interpretation and appreciation

Unit-IV : Interpretation of Weather Maps and Graphs

(11 lect)

Line and bar graph, climograph, hythergraph and wind rose,

Weather maps : Reading and interpretation

Socio-economic survey report, journal and viva

Paper No. VI- Topographical ,Thematic Maps and Statistical Techniques)

SEMESTER-VI

COURSE CODE: UAGR602

Unit-V : Map Projections

(11 lect)

Concept, need, classification and suitability, construction and properties: Graphical methods of drafting selected projections:

- | | | | |
|----|-------------------------------|----|-------------------------------|
| a) | Zenithal polar equal area | b) | Zenithal equidistant |
| c) | Conical one standard parallel | d) | Conical two standard parallel |
| e) | Cylindrical equal area | f) | Cylindrical equidistant |

Unit-VI

Use of Computer in Data Processing (11 lect)

MS Excel. Functions of entering and storing data, calculation of various measures of central tendency, dispersion, construction of graphs

Basic of MS Word and Power Point

Unit-VII

Statistical Techniques- I (12 lect)

Frequency distribution, Measures of central tendency: mean, median, mode – Measures of Dispersion : Quartile deviation, standard deviation,

Unit-VIII (11 lect)

Statistical Techniques-II

Spearman's Correlation, moving average method (3 & 5 years)

Sampling: Random and Systematic- line and point

Field Trip Report, Journal and Viva

UNIVERSITY OF MUMBAI

Question Paper Pattern

(For Academic Year 2012-13)

T.Y.B.A. - Geography (PRACTICAL)

(Paper No. VI- Topographical,Thematic Maps and Statistical Techniques)

(Credit and Grade System with effect from Academic Year 2013-14)

SEMESTER-V

COURSE CODE: UAGR601

&

SEMESTER-VI

COURSE CODE: UAGR602

Question paper pattern

Time: 3 hours (Marks: 60)

N.B. All questions are compulsory in the question paper

(Note: Examiner will set question paper at college centre)

Q.1	Unit-I / V	(12 marks)
Q.2	Unit-II / VI	(12 marks)
Q.3	Unit-III/ VII	(12 marks)
Q.4	Unit-IV/ VIII	(12 marks)
Q.5	Report, Journal and Viva	(12 marks)

INTERNAL ASSESSMENT (40 marks)

1. One assignment -	10 marks
2. One class test -	20 marks
3. Active participation+ Overall performance	5 marks+ 5marks

UNIVERSITY OF MUMBAI

Syllabus for T.Y.B.A. Geography,

Paper No. VII - Geography of Developed and Developing Countries

(Credit and Grade System with effect from Academic Year 2013-14)

SEMESTER-V

COURSE CODE: UAGR701

Unit -I**(15 lect)**

Concept of the Divided World – Developed, Developing and Underdeveloped Countries – Their Characteristics – Basic Indicators – Making of the Third World through Colonialism – Impact of Colonialism – Post-Colonial World – Cold War Period – New World Economic and Political Order after 1990s

Unit -II**(15 lect)**

World Physical Geography as Basis for Understanding Regions – Relief, Drainage, Climate, Soil, Natural Vegetation, Minerals – Growth, Distribution and Density of Population in Developed and Developing Countries

Unit -III**(15 lect)**

Process and Patterns of Urbanisation in Developed and Developing Countries – Growth of Metropolitan Cities – Major World Cities – Problems of Urbanisation in Developed and Developing Countries – Urban Poverty, Problems of Metropolitan Regions

Unit –IV**(15 lect)**

Nature of Economies of the Developed and Developing Countries – Contemporary Patterns of Agriculture, Mining and Fishing – Industries – Patterns of International Trade in Developed and Developing Countries -

Paper No. VII - Geography of Developed and Developing Countries**SEMESTER-VI****COURSE CODE: UAGR702****Unit -V****(15 lect)**

Geography of Developed Countries – Case of USA or Japan – Historical Background – Location and Extent – Physical Features with Reference to Relief, Drainage, Climate, Soil, Natural Vegetation, Minerals – Population Characteristics – Economic Regions Based on Agriculture, Industries and Service Sectors – Cities – Levels of Development – Problems of Regional Development

Unit -VI

(15 lect)

Geography of Developing Countries – Case of China or Brazil – Historical Background – Location and Extent – Physical Features with Reference to Relief, Drainage, Climate, Soil, Natural Vegetation, Minerals – Population Characteristics – Economic Regions Based on Agriculture, Industries and Service Sectors – Cities – Levels of Development – Problems of Regional Development

Unit -VII

(15 lect)

Geography of Underdeveloped Countries – Case of Bangladesh or Ethiopia – Historical Background – Location and Extent – Physical Features with Reference to Relief, Drainage, Climate, Soil, Natural Vegetation, Minerals – Population Characteristics – Economic Regions Based on Agriculture, Industries and Service Sectors – Cities – Levels of Development – Problems of Regional Development

Unit -VIII

(15 lect)

SWOT Analysis of India in Comparison with the Case Study Countries Studies Above (USA or Japan, China or Brazil, Bangladesh or Ethiopia), Road Ahead for India – Selected Issues of Development in Developed and Developing Countries

UNIVERSITY OF MUMBAI

Question Paper Pattern

T.Y.B.A. - Geography

**Paper - VII Geography of Developed and Developing Countries
(Credit and Grade System with effect from Academic Year 2013-14)**

SEMESTER-V
COURSE CODE: UAGR701
&

SEMESTER-VI
COURSE CODE: UAGR702

EXTERNAL ASSESSMENT (60 marks)

Time: 2 hours

Marks: 60

N.B. All questions are compulsory

Q.1	Unit-I / V		15 marks
		OR	
Q.1	Unit-I / V		15 marks
Q.2	Unit-II / VI		15 marks
		OR	
Q.2	Unit-II / VI		15 marks
Q.3	Unit-III / VII		15 marks
		OR	
Q.3	Unit-III / VII		15 marks
Q.4	Unit-IV / VIII		15 marks
		OR	
Q.4	Unit-IV / VIII		15 marks

INTERNAL ASSESSMENT (40 marks)

- | | |
|----------------------------------------------|-----------------|
| 1. One assignment - | 10 marks |
| 2. One class test - | 20 marks |
| 3. Active participation+ Overall performance | 5 marks+ 5marks |

REFERENCES:

1. Bradshaw M. (2000): 'World Regional Geography: The New Global Order', McGraw Hill, USA (ISBN: 0-697-38514-0)
2. Waugh, D. (2003): 'The New Wider World', Nelson Thornes, UK (ISBN: 978-0-7487-7376-3)

3. Knox, P., Agnew, J. and McCarthy, L. (2008): 'The Geography of the World Economy', Hodder Education, UK (ISBN: 978-0-340-94835-4)
4. Johnston, R., Taylor, P., and Watts, M. (2002): 'Geographies of Global Change: Remapping the World', Blackwell Publishing, USA (ISBN: 978-0-631-22286-6)
5. World Bank (2007): 'Atlas of Global Development', Collins, UK (ISBN: 978-0-8213-6856-5)
6. Potter, R., Binns, T., Elliot, J. and Smith, D. (1999): 'Geographies of Development', Longman, UK (ISBN: 0-582-29825-3)
7. Garrett, N, et al (2009): 'Geography for the IB Diploma', Oxford University Press, UK
8. Wiegand, P. (2007): 'Oxford International Student Atlas', Oxford University Press, Oxford University Press, UK (ISBN: 978018325796)

UNIVERSITY OF MUMBAI
Syllabus for T.Y.B.A. Geography,
Paper No. VIII-(A)- GEOGRAPHY OF DISASTER MANAGEMENT

SEMESTER-V
COURSE CODE: UAGR801-A

Unit-I

(15 lect)

Introduction to Disaster Management:

- i) Indian scenario
- ii) Difference between hazards, calamity and disaster
- iii) Types of hazards
- iv) Vulnerability, capacity, risk
- v) Disaster management: Disaster management cycle
- vi) Disaster Management in India
- vii) Disaster Management: Financial Arrangements
- viii) Role of NGOs, community based organizations, media and communication in disaster management
- ix) Role of Geography in disaster management
- x) Role of GIS in disaster management

Unit-II

(15 lect)

Natural Disaster:

- i) Meaning and nature
- ii) Types of natural disasters in India- Earthquakes, Volcanic Eruption, Landslides, Snow Avalanche, Tsunami, Cyclone, Flood, Drought, Heat and cold waves, Global Warming, storm surge, Ozone Depletion
- iii) Disaster Profile of India: Regional and Seasonal
- iv) Impact of Disasters
- v) Efforts to mitigate disasters

Natural disasters with reference to a) Nature b) Geographical distribution c) Causes and impact

- d) Forecasting, warning & monitoring
- e) Preparedness and Response

f) Mitigation - case studies

A) Floods B) Droughts

Unit-III

(15 lect)

Natural disasters

C) Cyclone D) Earthquakes E) Landslides

Unit-IV

(15 lect)

Natural disasters

F) Heat and Cold waves G) Global warming H) Ozone depletion

Paper No. VIII-(A)- GEOGRAPHY OF DISASTER MANAGEMENT

SEMESTER-VI

COURSE CODE: UAGR802-A

Unit-V

(15 lect)

Man-made disaster

Distinction from natural disaster, Causes of man-made disasters, Basic facets of man-made disaster, Concern in disaster management, types of man-made disasters, response to man-made disasters, specific risk reduction and preparedness measures, typical post-disaster needs, case studies

A) Nuclear Disasters B) Chemical Disasters C) Biological disasters D) Terrorism

Unit-VI

(15 lect)

Man-made disaster:

E)Forest Fire F) Oil Fire G) Deforestation

Unit-VII

(15 lect)

Man-made disaster:

H) Road Accidents I) Rail Accidents J) Air Accidents K) Sea Accidents

Unit-VIII

(15 lect)

Disaster Management:

- i) Risk assessment and vulnerability
- ii) Disaster preparedness
- iii) Disaster response
- iv) Disaster relief
- v) Rehabilitation, reconstruction and recovery

UNIVERSITY OF MUMBAI

Question Paper Pattern

**Paper No. VIII-(A)- GEOGRAPHY OF DISASTER MANAGEMENT
(Credit and Grade System with effect from Academic Year 2013-14)**

SEMESTER-V
COURSE CODE: UAGR801-A
&

SEMESTER-VI
COURSE CODE: UAGR802-A

EXTERNAL ASSESSMENT (60 marks)

Time: 2 hours

Marks: 60

N.B. All questions are compulsory

Q.1	Unit-I / V		15 marks
		OR	
Q.1	Unit-I / V		15 marks
Q.2	Unit-II / VI		15 marks
		OR	
Q.2	Unit-II / VI		15 marks
Q.3	Unit-III / VII		15 marks
		OR	
Q.3	Unit-III / VII		15 marks
Q.4	Unit-IV / VIII		15 marks
		OR	
Q.4	Unit-IV / VIII		15 marks

INTERNAL ASSESSMENT (40 marks)

1. One assignment - 10 marks
2. One class test - 20 marks
3. Active participation+ Overall performance 5 marks+ 5marks

REFERENCES:

1. R.B.Singh (Ed)- Environmental Geography, Heritage Publisher, New Delhi, 1990
- 2.Savinder Singh- Environmental Geography, Prayag Pustak Bhavan, 1997
3. R.B.Singh (Ed)- Disaster Management, Rawat Publication, New Delhi, 2000

4.K. Ramana Murthy- Disaster Management, Dominant Publisher , Delhi, 2004

5.P.P.Marathe- Concepts and Practices in Disaster Management, Diamond Publication, Pune,2007

UNIVERSITY OF MUMBAI

Syllabus for T.Y.B.A. Geography,

Paper No. VIII (B)- Geography of Recreation and Tourism

(Credit and Grade System with effect from Academic Year 2013-14)

SEMESTER-V
COURSE CODE: UAGR801-B

Sr No.	Topic	Subtopic	Learning points	lectures
Unit -I	Nature and Scope	A) Definition and Nature B)Scope and Extent C)New trends in tourism	1) Concept of Leisure and recreation. 2) Definition of Tourist and Tourism. 3) Relation between Tourism and Geography. 4) Importance of Tourism: a) Tourism as a Service product b)Tourism Promotion i)Ecotourism ii)Agro tourism iii)Heritage tourism iv)Adventure tourism v)Medical tourism vi) Religious tourism	15
Unit -II	Tourism Development Resources in India- Spatial organization	A)Physical B)Cultural	1) Spots of scenic beauty. 2) Hill Stations 3) Beaches 4) Forests 5) Health Resorts 1) Places of Archaeological and cultural interest. 2) Places of historical interest. 3) Places of religious interest. 4) Modern cities. (Examples related to India)	15

Unit -III	Classification of tourists	A)Nationality _____ B)Time of Travel _____ C)Travel Distance _____ D)Purpose of Travel	1) International. 2) Domestic. _____ 1) Short/ Long haul , day/ holiday tourists. ----- 1) Global, continental, Regional and Local. _____ 1) Leisure, Recreation, Historical, Nature, Religious, Health, Sports.	15
Unit -IV	Role of Infrastructure	A)Transportation. _____ B)Accommodation	1) Modes-Air, rail. Road Water Ways. _____ 1) Hotels, Motels, inns, Dharmashalas 2)Institutional accommodation Govt, Youth Hostels, Rail Yatri Bhavan, 3)Bread & breakfast type.	15

Paper No. VIII (B)- Geography of Recreation and Tourism

**SEMESTER-VI
COURSE CODE: UAGR802-B**

Unit-V	Impact of Tourism	(A)Physical and Environmental Impacts <hr/> (B)Economic Impact <hr/> (C) Social impacts	a) Land Degradation b) Air and water pollution c) Solid Waste and Littering d)Loss of Biodiversity(with examples) <hr/> a)Growth of economy b) Employment generation c) Infrastructure development d) foreign exchange e) Cost escalation <hr/> a) Crime b) Cultural encroachment c)Zoofication d)Neo- colonialism	15
Unit-VI	Development and Planning	A)Levels of planning <hr/> B)Planning in India	a)International b)National, c)Regional d) Local <hr/> a) Development policy in India b)) Development policy in Maharashtra	15
Unit-VII	Tourism Agencies & Organizations	A)History of Travel agency in India <hr/> B)Function of Travel Agencies	ITDC and regional offices <hr/> a)Bookings, Documentation including passport , visa , currency exchange, insurance etc.	15
Unit-VIII	Case studies of Major Tourist Centres	(A)Hill Stations (B) Beach Points (C) Historical centres (D)Religious Centres (E) Dams	Local case study	15

UNIVERSITY OF MUMBAI

Question Paper Pattern

**Paper No. VIII (B)- Geography of Recreation and Tourism
(Credit and Grade System with effect from Academic Year 2013-14)**

SEMESTER-V

COURSE CODE: UAGR801-B

&

SEMESTER-VI

COURSE CODE: UAGR802-B

EXTERNAL ASSESSMENT (60 marks)

Time: 2 hours

Marks: 60

N.B. All questions are compulsory

Q.1	Unit-I / V		15 marks
		OR	
Q.1	Unit-I / V		15 marks
Q.2	Unit-II / VI		15 marks
		OR	
Q.2	Unit-II / VI		15 marks
Q.3	Unit-III / VII		15 marks
		OR	
Q.3	Unit-III / VII		15 marks
Q.4	Unit-IV / VIII		15 marks
		OR	
Q.4	Unit-IV / VIII		15 marks

INTERNAL ASSESSMENT (40 marks)

1. One assignment -	10 marks
2. One class test -	20 marks
3. Active participation+ Overall performance	5 marks+ 5marks

Reference books

1. The Geography of International : Ian M. Matley scientific publisher at Jodhpur
2. Geography of Tourism: Robinson
3. Tourism Development, Principles and Practices: Bhatia A.K., Sterling Publisher Ltd., New Delhi
4. Dynamics of Tourism: Kaul R.N., Sterline Publisher Ltd.
5. Parytan bhugol : Dr. S. B. Shinde , Phadke Prakashan, Kolhapur.
6. Parytan bhugol :A.V. Bhagvat, Murlidhar Prakashan, Pune.
7. Parytan & Arthik Kriya :Prof. Dr. Shankar G. Chaudhari, Himalaya Publication House, Mumbai.

Syllabus for T.Y.B.A. Geography,
Paper No. VIII-(C) - Agricultural Geography
(Credit and Grade System with effect from Academic Year 2013-14)

SEMESTER-V
COURSE CODE: UAGR801-C

Unit I (15 lect)

Introduction to Agricultural Geography: Definition – Origin of agriculture: Major Gene centres and Diffusion of agriculture – Agriculture and human civilization.

Unit II (15 lect)

Determinants of agriculture – Physical factors: Topography, climate and soils; Socio – Economic Factors : Size of landholding, labor supply and skill, capital and technology, transport, market and government policy

Unit III (15 lect)

Major agricultural types in the world : Shifting cultivation, Subsistence agriculture, Commercial agriculture, Plantation agriculture – Distribution of major crops in the World.

Unit IV (15 lect)

Agriculture in India- Characteristics of Indian agriculture – Green Revolution in India – Problem associated with Indian agriculture – National Agricultural Policy, impact of globalisation.

Paper No. VIII-(C) - Agricultural Geography

SEMESTER-VI

COURSE CODE: UAGR802-C

Unit V (15 lect)

World population and Food supply – problems of malnutrition and starvation, food Security and food Stock in India

Unit VI (15 lect)

Agricultural Trade: Role of WTO in agricultural trade practices - impact of Liberalization, privatization and Globalization on agricultural market, problems of Indian farmers –policies and programmes

Unit VII (15 lect)

Economics of agricultural land use – agricultural land use model of Von Thunen – Limitations of the model and its applicability in India

Unit VIII (15 lect)

Agricultural Sustainability: Economic, social and environmental; Sustainable agricultural practices with emphasis on socio-economic justice and poverty alleviation programmes.

UNIVERSITY OF MUMBAI

Question Paper Pattern

**T.Y.B.A. - Geography Paper - VIII-(C)
Paper - VIII-(C)Agricultural Geography
(Credit and Grade System with effect from Academic Year 2013-14)**

**SEMESTER-V
COURSE CODE: UAGR801-C**

&

**SEMESTER-VI
COURSE CODE: UAGR802-C**

EXTERNAL ASSESSMENT (60 marks)

Time: 2 hours

Marks: 60

N.B. All questions are compulsory

Q.1	Unit-I / V		15 marks
		OR	
Q.1	Unit-I / V		15 marks
Q.2	Unit-II / VI		15 marks
		OR	
Q.2	Unit-II / VI		15 marks
Q.3	Unit-III / VII		15 marks
		OR	
Q.3	Unit-III / VII		15 marks
Q.4	Unit-IV / VIII		15 marks
		OR	
Q.4	Unit-IV / VIII		15 marks

INTERNAL ASSESSMENT (40 marks)

1. One assignment -	10 marks
2. One class test -	20 marks
3. Active participation+ Overall performance	5 marks+ 5marks

References :

1. Grigg, D. (1984): An introduction to Agricultural Geography, Hutchinson Publication, London.
2. Morgan, W. B. and Munton, R. J. C. (1997) : Agricultural Geography , Methuen, London.
3. Singh, J. and Dhillon S. S. (1984) : Agricultural Geography, McGraw Hill, New Delhi.
4. Symons, L. (1972): Agricultural Geography, Bell and Sons, London.
5. Tarrant, J. R. (1974): Agricultural Geography, John Wiley and Sons, New York.
6. Bansil, B. C. (1974) Agricultural Problems of India, Delhi.
7. Bowler, I. R. (1992): The Geography of Agriculture in Developed Market Economy, Longman.
8. Bryant, C. R. Russwurm, L. K. and others (1982) : The City's Countryside : Land and its Managemnet in the Rural – Urban Fringe, Longman.
9. Chisholm (1970) Rural Settlement and landuse, Hutchinso, Lonadon (Revised)
10. Grigg, D. B. (1974): The Agricultural Systems of the World, Cambridge University Press.
11. Mohammad Noor (ed). (1981) : Perspectives in Agriculral Geography, Vol. I to V, Concept, New Delhi. C. (1952): Agricultural Origin and Dispersal, American Geographical Society, Bowman memorial lecture, New York.
12. Sharma, P. S. (1973): Agricultural Regionalization of India, New Heights Publication, New Delhi.
13. Van Roven Wiliam (1954) : Atlas of the World Resources, Vol. I- The Agricultural Resouces of the World, Prentice Hall, New York.
14. Neeraj 2001: Globalisation or Recolonisation, Published by Elgar, Pune.
15. Majid Husain 2007 : Systematic agricultural Geography, Rawat Publications Jaipur.
16. Mohhamad Shafi 2006 : Agricultural Geography, Pearson Education, Delhi.

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Syllabus for T.Y.B.A. Geography (PRACTICAL),
Paper No. IX- Remote Sensing, GIS,GPS and Research Methodology in
Geography

(Credit and Grade System with effect from Academic Year 2013-14)

SEMESTER-V
COURSE CODE: UAGR901
Research Methodology in Geography

UNIT-I **(12 lect)**

Research Methodology –An Overview, Procedure of Scientific Research, Some Methodological Controversies and Explanation in Geography, Theories, Laws and Models in Geographic Explanation. Defining and formulating Research Problem, Formulating Hypothesis; Research Design.

UNIT-II **(11 lect)**

Data' Collection - Observation, Questionnaire, Schedule and Interview; Sources of Data for Different Branches of Geography;
Sampling - Need, Sample size, Sampling Techniques.
Measurement and Scaling - Meaning, Importance, Classification, Techniques, Sources of Error in Measurement

UNIT-III **(11 lect)**

Analysis and Interpretation of Data

Processing: Editing, Coding, Classification, Tabulation and Graphical presentation

Statistical Tools: Measures of Central Tendency and Dispersion, Measures of Association - Correlation and Regression Analysis, Time- Series Analysis, Probability, Hypothesis Testing, GIS Applications

UNIT-IV **(11 lect)**

A) Preparation of Research Report - Steps, Content, Layout, Style and Types of Reports:

B) journal and viva

**Paper No. IX- Remote Sensing, GIS,GPS and Research Methodology in
Geography**

**SEMESTER-VI
COURSE CODE: UAGR902
Remote Sensing, GIS and GPS**

Unit V (11 lect)

Aerial photography: Types of aerial photographs; Impact of season & time; Elements of photo image recognition; Use of Stereoscopes : stereo pairs for the identification of relief features.

Unit VI (11 lect)

Remote sensing and satellite imageries: Meaning & definitions associated with Fundamentals of Remote sensing: EMR & its interaction with matter and atmosphere, Applications in Geography

Unit VII (11 lect)

Geographical Information System (GIS):

Meaning, concept and components of GIS, GIS operations and Applications in Geography

Data Analysis in GIS:

Concept of Point, line and polygon, Concepts of Geoid, Ellipsoid and Datum, Concepts of Spatial and non-spatial data used in GIS and vector and raster analysis

Unit VIII (12lect)

Use of Free or available GIS software and GPS

Registration of topomap and/or map, digitization of the map, overlay of spatial data, Mapping of Land use / Landforms; interpretation of rock types & soils, cultural features, natural hazards & water resources using satellite imageries (30)

GPS: Definition, Types and Applications; Practical use and loading the data from GPS to GIS

Field trip, journal and viva

UNIVERSITY OF MUMBAI

Question Paper Pattern

T.Y.B.A. - Geography (PRACTICAL)

**Paper No. IX- Remote Sensing, GIS,GPS and Research Methodology in
Geography
(Credit and Grade System with effect from Academic Year 2013-14)**

SEMESTER-V

COURSE CODE: UAGR901

&

SEMESTER-VI

COURSE CODE: UAGR902

Question paper pattern

Time: 3 hours (Marks: 60)

N.B. All questions are compulsory in the question paper

(Note: Examiner will set question paper at college centre)

Q.1	Unit-I / V	(12 marks)
Q.2	Unit-II / VI	(12 marks)
Q.3	Unit-III/ VII	(12 marks)
Q.4	Unit-IV/ VIII	(12 marks)
Q.5	Report, Journal and Viva	(12 marks)

INTERNAL ASSESSMENT (40 marks)

1. One assignment -	10 marks
2. One class test -	20 marks
3. Active participation+ Overall performance	5 marks+ 5marks

REFERENCES:

Research Methodology in Geography

Selltiz, C.M. Jahoda, M. Deutsch and S.	Research Methods in Social Relations, Holt, . New York, 1961.
Goode, W and P.K, Hatt	Methods in Social Research, Mc Graw Hill, .Tokyo, 1962.
Harvey, David	. Explanation in Geography, Edward Arnold, London, 1971
Chorley, R.J. and P. Haggett (ed)	Models in Geography, Methuen, London, 1967.
Minshull, R.	Introduction to Models in Geography. Longman London, 1975.
Sheskin, I.M.	Survey Research for Geographers Scientific Publisher, Jodhpur, 1987.
Kothari, C. R.	Research Methodology : Methods and Techniques, Wishwa Prakashan, 1994.

(Remote Sensing, GIS and GPS)

1. American Society of photogrammetry (ASP)(1983): Manual of Remote Sensing, 2nd Ed. ASP Falls Church, V.A.
2. Avery T.E. & G.L. Berlin (1992): Fundamentals of Remote sensing & Air photo Interpretation,. 514 Ed. Macmillan, New York, USA.
3. Campbell, J.B. (1987): Introduction to Remote sensing Guilford, New York, USA.
4. Lillesand Thomas M & Ralph Kifer (1994): Remote Sensing & Image Interpretation third edition, John Wiley & Sons, Inc New York, USA.
5. Sabins F.(1982): Remote sensing principles & application Freeman & compare, New York, USA.
6. Verstaappen H.Th (1977): Remote Sensing in Geomorphology; Elsevier scientific publications compuring, Amsterdam, The Netherland.
7. Warrin R. Philipson (1997): Manual of Photographic interpretation, Second edition, American Society for Photogrammetry & Remote Sensing, Maryland, USA.
8. Kang-tsung Chang (2010): Introduction to Geographical Information System, fourth edition, Tata McGraw-Hill Edition
9. David Martin (2002): Geographical Information Systems, Socioeconomic Applications, Routledge, Second Ed.

Question Paper Pattern

(For Academic Year 2012-13)

T.Y.B.A. - Geography (PRACTICAL)

**Paper No. IX- Remote Sensing, GIS,GPS and Research Methodology in
Geography**

Question paper part-A

Time: 4 hours (Marks: 80)

N.B. All questions are compulsory in the question paper

(Note: Examiner will set question paper at college centre)

Question paper part-B (20 marks)

Marks are assigned for internals