

UNIVERSITY OF MUMBAI

No. UG/96 of 2015

CIRCULAR:-

A reference is invited to the Syllabi relating to the T.Y. B.A. degree course **vide** this office Circular No. UG/13 of 2012-2013 dated 5th May, 2012 and the Principals of affiliated Colleges in Arts and the Professor-cum-Director, Institute of Distance and Open Learning (IDOL) are hereby informed that the recommendation made by the Board of Studies in Geography at its meeting held on 15th August, 2015 has been accepted by the Academic Council at its meeting held on 31st August, 2015 **vide** item No. 4.1 and that in accordance therewith, the revised syllabus as per Credit Based Semester and Grading System of T.Y.B.A. Geography (Sem. V & VI) at the B.A. paper 4 to 9, which is available on the University's web site (www.mu.ac.in) that the same has been brought into force with effect from the academic year 2016-17.

MUMBAI – 400 032
13th October, 2015


REGISTRAR

To,

Principals of affiliated Colleges in Arts and the Professor-cum-Director, Institute of Distance and Open Learning (IDOL).

A.C/4.1 /31/08/2015

No. UG/96 -A of 2015-16 MUMBAI-400 032 13th October, 2015

Copy forwarded with compliments for information to:-

- 1) The Dean, Faculty of Arts,
- 2) The Chairperson, Board of Studies in Geography.
- 3) The Controller of Examinations,
- 4) The Co-Ordinator, University Computerization Centre.
- 5) The Director, Board of College and University Development


REGISTRAR

..PTO

31-8-2015
Item no. 4.1

UNIVERSITY OF MUMBAI



SYLLABUS FOR THE B.A

Program: T.Y.B.A.

Course: Geography

Sem.- V &VI at the B.A paper 4 to 9

(Credit Based Semester and Grading System
with effect from the academic year 2016-17)

UNIVERSITY OF MUMBAI
Syllabus for T.Y.B.A. Geography,
Paper No.IV Geography of Rural Settlement
(Credit and Grade System with effect from Academic Year 2016-17)

SEMESTER-V
Geography of Rural Settlement
COURSE CODE: UAGEO501

Unit I **(12 lectures)**

Geography of Rural Settlement – Definition – Nature – Scope – Importance

Rural House - Building material and House types - Regional variation- with special reference to India

Unit II **(12 lectures)**

Factors affecting on Rural Settlements – Physical, Economical, Social, Political, Cultural

Types of Rural settlement on the basis of location, pattern, function, spacing

Location – Wet point, Dry point

Pattern – Liner, Circular, Square, Fan, Net/Reticulum, Star/Radial, Arrow, Terrace pattern

Function – Agriculture, Fishing, Lumbering, Mining

Spacing- Compact, Scattered

Unit III **(12 lectures)**

Hierarchy of Rural settlement- Farm village, Hamlets, Village, Weekly market center- Town

Settlement pattern in Old & New World – Old world (Farm village, Forest village)

New world – (Mining village, Transport village, Tourist village)

Unit IV **(12 lectures)**

Changing pattern of Rural Land use – (Special Reference of local village)

Sustainable development of rural settlement

Unit V **(12 lectures)**

Integrated Rural Development Programme – Nature, Programme, Main section

Self Employment Programme – Problems of implementation - remedies

UNIVERSITY OF MUMBAI
QUESTION PAPER PATTERN

Paper No.IV Geography of Rural Settlement
(Credit and Grade System with effect from Academic Year 2016-17)

SEMESTER-V
Geography of Rural Settlement
COURSE CODE: UAGEO501

INTERNAL ASSESSMENT (25 marks)

- | | |
|--|----------|
| 1. One class test - | 20 marks |
| 2. Active participation, Overall performance | 5 marks |

EXTERNAL ASSESSMENT (75 marks)

Time: 2 & 1/2 hours

Marks: 75 marks

N.B. All questions are compulsory

Q.1	Unit-I (15 marks)	OR	Q.1	Unit-I(15 marks)
Q.2	Unit-II (15 marks)	OR	Q.2	Unit-II (15 marks)
Q.3	Unit-III (15 marks)	OR	Q.3	Unit-III (15 marks)
Q.4	Unit-IV (15 marks)	OR	Q.4	Unit-IV (15 marks)
Q.5	Unit-V (15 marks)	OR	Q.5	Unit-V (15 marks)

(Q.1 to Q.5 may be divided into two sub question - i) one question of 8 marks and another question will be of 7 marks OR Q.1 to Q.5 may be asked fully as a long answer question of 15 marks)

REFERENCES:

- Mayer, Harold M. (1973) "Some Geographic aspects of technological change in Maritime Transportation," *Economic Geography* 145-156
- Smith R.H.T. & A.M. Hay (1969) "A theory of the spatial structure of internal trade in underdeveloped countries," *Geographical Analysis* 121-136
- Alexander J.W.(1954) "The basic-Non basic concept of Urban Economic functions" *Economic Geography* 246-261
- Borchert, John R. (1972) "America's changing metropolitan regions" *Annals of the association of American Geographers* 352-373
- Hidore J.J. (1963) "The relationship between Cash Grain farming & landforms" *Economic Geography* 84-89
- Kenyon J. (1967) "On the relation between central function & size of place" *Annals of the association of American Geographers* 736-750
- Mayer, Harold M (1964) "Urban Nodality & the Economic base" *Journal of the American institute of planners* 117-121
- Hudson -Settlement Geography
- Northan – Urban Geography
- Sing R.Y. – Geography of settlement
- Kiraskar G.K. – Fundamentals of Town planning
- Johnson J.H. – Urban Geography
- Hussain Majid – Human Geography
- Bhatia S.C. The rural urban continuum
- Carter Harold – The study of urban Geography
- Diddee Jaymala & Vimala - Urbanization
- Smailes A. – The Geography of Towns
- Fitzgerald B.- Settlement patterns
- Hammond C.W. – Elements of Human Geography
- Hudson F. – Settlement Geography
- Carter H. – Urban Geography
- Leoug G. – Human & Economic Geography
- Dickinson R. – City & Region
- Singh R.L. – Reading in Rural Geography
- Negi – Human Geography
- Huntington E. –Principles of Human Geography
- Money D.C. – Introduction of Human & Economic Geography
- Emrys Jones – Human Geography
- Davis – Earth & Man
- Lebon J.H.G. – An Introduction of Human Geography
- Preston Jones – Geography of Man

UNIVERSITY OF MUMBAI

**Syllabus for T.Y.B.A. Geography,
Paper No.IV Geography of Urban Settlement
(Credit and Grade System with effect from Academic Year 2016-17)**

**SEMESTER-VI
Geography of Urban Settlement
COURSE CODE: UAGEO601**

Unit I **(12 lectures)**

Geography of Urban Settlement – Definition – Nature – Scope – Importance
Urban Characteristics
Rural Urban Fringe

Unit II **(12 lectures)**

Factors affecting on Urbanization – Physical, Economical
Growth of world urbanization
Problems in urbanization - Solutions - Planning
Sustainable development of Towns

Unit III **(12 lectures)**

Types of Urban Settlement on the basis of population – Town, City, Metropolitan city, Megalopolis, Conurbation
Location – Coastal, Nodal, Continental
Pattern - Liner, Circular, Square, Fan, Net/Reticulum, Star/Radial, Arrow pattern
Function – Industrial, Educational, Administrative, Regional, Tourism, Cultural, Commercial, Transportation

Unit IV **(12 lectures)**

Trends of urbanization – Ancient Towns, Medieval, Post industrialization
Main Cities in India and their patterns (Delhi, Mumbai, Kolkata, Chennai)

Unit V **(12 lectures)**

Theories of Urban Growth –
Central Place Theory
Concentric Zone Theory
The Sector Model
The Multiple Nuclei Model

UNIVERSITY OF MUMBAI
QUESTION PAPER PATTERN

Paper No.IV Geography of Urban Settlement
(Credit and Grade System with effect from Academic Year 2016-17)

SEMESTER-VI
Geography of Urban Settlement
COURSE CODE: UAGEO601

INTERNAL ASSESSMENT (25 marks)

- | | |
|--|----------|
| 1. One class test - | 20 marks |
| 2. Active participation, Overall performance | 5 marks |

EXTERNAL ASSESSMENT (75 marks)

Time: 2 & 1/2 hours

Marks: 75 marks

N.B. All questions are compulsory

Q.1	Unit-I (15 marks)	OR	Q.1	Unit-I(15 marks)
Q.2	Unit-II (15 marks)	OR	Q.2	Unit-II (15 marks)
Q.3	Unit-III (15 marks)	OR	Q.3	Unit-III (15 marks)
Q.4	Unit-IV (15 marks)	OR	Q.4	Unit-IV (15 marks)
Q.5	Unit-V (15 marks)	OR	Q.5	Unit-V (15 marks)

(Q.1 to Q.5 may be divided into two sub question - i) one question of 8 marks and another question will be of 7 marks OR Q.1 to Q.5 may be asked fully as a long answer question of 15 marks)

References

Boyce R.B. & W.A.V. Clark (1964) "The concept of shape in Geography,"
 Geographical Review Pp 561-572

Davis Kingsley (1969) World urbanization Berkeley, University of California Institute
 of international studies, Vol 1

Eliot Hurst, Michael E. (1973) Transportation & the Societal Framework. Economic
 Geography Pp 163-184

Hayami Yujiro V.W. Ruttan (1971) Agricultural development: An international
 perspective, balltimore, Md Johans Hopkins press

Mayer, Harold M. (1973) "Some Geographic aspects of technological change in
 Maritime Transportation," Economic Geography 145-156

Smith R.H.T. & A.M. Hay (1969) "A theory of the spatial structure of internal trade in
 underdeveloped countries," Geographical Analysis 121-136

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 "Economic Geography 84-89

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Mayer, Harold M (1964) "Urban nodality & the Economic base" Journal of the
 American institute of planners 117-121

Hudson -Settlement Geography
 Northan – Urban Geography
 Sing R.Y. – Geography of settlement
 Kiraskar G.K. – Fundamentals of Town planning
 Johnson J.H. - Urban Geography
 Hussain Majid – Human Geography
 Bhatia S.C. The rural urban continuum
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 Carter H. – Urban Geography
 Leoug G. – Human & Economic Geography
 Dickinson R. – City & Region
 Singh R.L. – Reading in Rural Geography

UNIVERSITY OF MUMBAI

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

Paper No.V Environmental Geography

(Credit and Grade System with effect from Academic Year 2016-17)

SEMESTER-V

Environmental Geography

COURSE CODE: UAGEO502

Unit- I

Introduction to Environmental Geography (12 lectures)

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

Ecosystem

Meaning, Components & Function, Bio-geo-chemical cycles: Hydrological, Carbon and Nitrogen -Types of ecosystem: Forest, Grassland, Desert, Fresh water and Marine

Unit- II

Natural Resources (12 lectures)

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

Bio-diversity

Concept, Types, Hotspots of Bio-diversity, Biodiversity in India with emphasis on Western Ghat,

Unit- III

Pollution (12 lectures)

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

Unit- IV

Sustainable Development (12 lectures)

Concept and Need of Sustainable Development, Environmental Issues and Sustainable Development, Sustainable Agriculture, Energy crisis - Eco-friendly life style

Unit- V

Environmental Issues and Movements (12 lectures)

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

UNIVERSITY OF MUMBAI

QUESTION PAPER PATTERN

Paper No.V Environmental Geography

(Credit and Grade System with effect from Academic Year 2016-17)

SEMESTER-V
Environmental Geography
COURSE CODE: UAGEO502

INTERNAL ASSESSMENT (25 marks)

- | | |
|--|----------|
| 1. One class test - | 20 marks |
| 2. Active participation, Overall performance | 5 marks |

Unit	Title	Content	Lectures
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EXTERNAL ASSESSMENT (75 marks)

Time: 2 & 1/2 hours

Marks: 75 marks

N.B. All questions are compulsory

Q.1	Unit-I (15 marks)	OR	Q.1	Unit-I(15 marks)
Q.2	Unit-II (15 marks)	OR	Q.2	Unit-II (15 marks)
Q.3	Unit-III (15 marks)	OR	Q.3	Unit-III (15 marks)
Q.4	Unit-IV (15 marks)	OR	Q.4	Unit-IV (15 marks)
Q.5	Unit-V (15 marks)	OR	Q.5	Unit-V (15 marks)

(Q.1 to Q.5 may be divided into two sub question - i) one question of 8 marks and another question will be of 7 marks OR Q.1 to Q.5 may be asked fully as a long answer question of 15 marks)

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, Hyderabad
3. Yadav M. S., 2008: Environmental Studies Arise Publishers & Distributers, 4648/1, 21, Darya Ganj, New Delhi

I	Nature and Scope of Tourism Geography	i- Definition ii- Nature and Scope iii-Geography and Tourism iv-Development of Tourism v –Role of Tourism in National Economy	12
II	Types and Classification of Tourism	i –Types of Tourism ii- New Trends in Tourism iii-Classification of Tourism	12
III	Factors and Impact of Tourism	i- Physical Factors ii-Economic Factors iii-Socio-Cultural Factors iv-Economic Impact v- Social Impact vi-Environmental Impact	12
IV	Infrastructure and Support Services	i- Transportation ii-Accommodation iii-Tourism Organizations iv-Agencies and Guides	12
V	Tourism Resources in India and Maharashtra	i- Geographical ii- Historical iii-Religious iv- Cultural	12

UNIVERSITY OF MUMBAI

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

Paper No.V Geography of Tourism

(Credit and Grade System with effect from Academic Year 2016-17)

SEMESTER-VI

Geography of Tourism

COURSE CODE: UAGEO602

UNIVERSITY OF MUMBAI

QUESTION PAPER PATTERN

Paper No.V Geography of Tourism

(Credit and Grade System with effect from Academic Year 2016-17)

SEMESTER-VI

Geography of Tourism

COURSE CODE: UAGEO602

INTERNAL ASSESSMENT (25 marks)

- | | |
|--|----------|
| 1. One class test - | 20 marks |
| 2. Active participation, Overall performance | 5 marks |

EXTERNAL ASSESSMENT (75 marks)

Time: 2 & 1/2 hours

Marks: 75 marks

N.B. All questions are compulsory

Q.1	Unit-I (15 marks)	OR	Q.1	Unit-I(15 marks)
Q.2	Unit-II (15 marks)	OR	Q.2	Unit-II (15 marks)
Q.3	Unit-III (15 marks)	OR	Q.3	Unit-III (15 marks)
Q.4	Unit-IV (15 marks)	OR	Q.4	Unit-IV (15 marks)
Q.5	Unit-V (15 marks)	OR	Q.5	Unit-V (15 marks)

(Q.1 to Q.5 may be divided into two sub question - i) one question of 8 marks and another question will be of 7 marks OR Q.1 to Q.5 may be asked fully as a long answer question of 15 marks)

REFERENCES:

- *Bhatia A.K.- Tourism Development*
- *Bhatia A.K. – International Tourism*
- *Das Manoj- India- ‘ A Tourist Paradise’*
- *Donal E.N – Tourism Planning & Development Issues*
- *Gharpure Vitthal- Paryatan Bhugol*
- *Nagtode P. M. & Pardhi- Paryatan Bhugol*
- *Robinson R. –The Geography of Tourism*
- *Shinde S.B.- Paryatan Bhugol*
- *Khatib K.A.- Paryatan Bhugol*

UNIVERSITY OF MUMBAI

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

Paper No.VI Topo map and Thematic map Interpretation

(Credit and Grade System with effect from Academic Year 2016-17)

SEMESTER-V

Topo map and Thematic map Interpretation

COURSE CODE: UAGEO503

Unit-I : Map-Basic

(9 lectures)

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: Map Projections

(9 lectures)

Concept, need, classification and suitability, construction and properties: Graphical methods of drafting selected projections: Zenithal polar equal area, Zenithal equidistant, Conical one standard parallel, Conical two standard parallel, Cylindrical equal area, Cylindrical equidistant

Unit-III: Interpretation of Topographical Maps

(9 lectures)

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-IV

Interpretation of Thematic Maps

(9 lectures)

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-V : Interpretation of Weather Maps and Graphs (9 lectures)

Line and bar graph, Climograph, Hythergraph and Wind rose,

Weather maps: Reading and interpretation

Journal and viva

UNIVERSITY OF MUMBAI

QUESTION PAPER PATTERN

Paper No.VI Topo map and Thematic map Interpretation

(Credit and Grade System with effect from Academic Year 2016-17)

SEMESTER-V

Topo map and Thematic map Interpretation

COURSE CODE: UAGEO503

INTERNAL ASSESSMENT (25 marks)

- | | |
|--|----------|
| 1. One class test - | 20 marks |
| 2. Active participation, Overall performance | 5 marks |

EXTERNAL ASSESSMENT (75 marks)

Time: 4 hours

Marks: 75 marks

N.B. All questions are compulsory

Q.1	Unit-I	(with internal option)	(13 marks)
Q.2	Unit-II	(with internal option)	(13 marks)
Q.3	Unit-III	(with internal option)	(13 marks)
Q.4	Unit-IV	(with internal option)	(13 marks)
Q.5	Unit-V	(with internal option)	(13 marks)
Q.6	Journal, Viva		(10 marks)

REFERENCES:

1. Dent B. D., 1999: *Cartography: Thematic Map Design*, (Vol. 1), McGraw Hill.
2. Gupta K. K and Tyagi V. C., 1992: *Working with Maps*, Survey of India, DST, New Delhi.
3. Mishra R. P. and Ramesh A., 1989: *Fundamentals of Cartography*, Concept Publishing.
4. Robinson A., 1953: *Elements of Cartography*, John Wiley.
5. Singh R. L. and Singh R. P. B., 1999: *Elements of Practical Geography*, Kalyani Publishers
6. Steers J. A., 1965: *An Introduction to the Study of Map Projections*, University of London.
7. Sarkar A.K *Practical Geography: A Systematic Approach*, Oriental Longman, Calcutta, 1997.

UNIVERSITY OF MUMBAI
Syllabus for T.Y.B.A. Geography,
Paper No.VI Statistical Techniques, Computer and Surveying
(Credit and Grade System with effect from Academic Year 2016-17)

SEMESTER-VI
Statistical Techniques, Computer and Surveying

COURSE CODE: UAGEO603

UNIT – I (9 lectures)

Need and Importance of the statistical techniques
Nature of the statistical data
Frequency distribution
Measures of central tendency – Mean Median & Mode

UNIT – II (9 lectures)

Measures of dispersion – Range, Quartile Deviation,
Mean deviation, Standard deviation
Moving average
Area mean

UNIT – III (9 lectures)

Correlation & Regression
 χ^2 test
Introduction to SPSS package

UNIT – IV (9 lectures)

COMPUTER
IMPORTANCE & USE OF COMPUTER
BASIC TERMS RELATED TO COMPUTER
MS WORD, MS EXCEL
USE OF INTERNET

UNIT - V (9 lectures)

SURVEYING
Plane Table Survey
Prismatic Compass Survey
Abney level or Clinometer

Field trip/Socio-economic survey and report writing, journal and viva

UNIVERSITY OF MUMBAI

QUESTION PAPER PATTERN

Paper No.VI Statistical Techniques, Computer and Surveying

(Credit and Grade System with effect from Academic Year 2016-17)

SEMESTER-VI

Statistical Techniques, Computer and Surveying

COURSE CODE: UAGEO603

INTERNAL ASSESSMENT (25 marks)

- | | |
|--|----------|
| 1. One class test - | 20 marks |
| 2. Active participation, Overall performance | 5 marks |

EXTERNAL ASSESSMENT (75 marks)

Time: 4 hours

Marks: 75 marks

N.B. All questions are compulsory

- | | | |
|-----|---|------------|
| Q.1 | Unit-I (with internal option) | (13 marks) |
| Q.2 | Unit-II (with internal option) | (13 marks) |
| Q.3 | Unit-III (with internal option) | (13 marks) |
| Q.4 | Unit-IV (with internal option) | (13 marks) |
| Q.5 | Unit-V (with internal option) | (13 marks) |
| Q.6 | Field Trip/Socio-Economic Survey and Report writing, Journal and viva | (10 marks) |

REFERENCES:

1. Singh R. L. and Singh R. P. B., 1999: *Elements of Practical Geography*, Kalyani Publishers
2. Pal, S.K. *Statistics for Geoscientists — Techniques and Applications*, Concept, New Delhi, 1998.
3. Singh, R.L. and Dutt, P.K.: *Elements of Practical Geography*, Kalyani Publishers,

New Delhi,1979.

4. Gregory S : Statistical Methods and the Geographer. Longman S. London, 1963
5. Khan, Z.A.: Text Book of Practical Geography Concept, New Delhi 1998.
6. Hammond R and P.S. McCullagh Quantitative Techniques in Geography: An Introduction, Clarendon Press, Oxford, 1974.
7. John P.Cole and Cuchlaine A. M. King, Quantitative Geography, John Wiley, London,1968.
8. Maurice Yeats, An Introduction to Quantitative Analysis in Human Geography, McGraw Hill, New York, 1974.
9. Clendinning ,J Principles of surveying 2nd edition 1960.
10. Clendinning , J. Principles and use of Surveying Instruments. 2nd edition, Blockie,1958.

UNIVERSITY OF MUMBAI

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

Paper No.VII Population Geography

(Credit and Grade System with effect from Academic Year 2016-17)

SEMESTER-V

Population Geography

COURSE CODE: UAGEO504

UNIT- I (12 lectures)

Population Geography – Concept, Definition, Nature, Scope, Importance, Population Geography and other Social Sciences, Historical Development in Population Geography

UNIT- II (12 lectures)

Growth, Distribution and Density – Growth - Definition, Causes, Effects and Remedies to control the growth of population.

Distribution– Factors affecting on distribution of population in World and India.

Density – Zones of density of population in world.

UNIT- III (12 lectures)

Demographic Theories – Demographic transition theory, Malthus Theory, Karl Marx Theory.

UNIT- IV (12
lectures)

Migration – Definition, Types, Causes, effects, Recent trend of migration of population in India.

UNIT- V (12
lectures)

Population of India - Distribution of Tribes, Major Religious groups, Occupational structure, Age structure, Population Policy of India

UNIVERSITY OF MUMBAI

QUESTION PAPER PATTERN

Paper No.VII Population Geography

(Credit and Grade System with effect from Academic Year 2016-17)

SEMESTER-V

Population Geography

COURSE CODE: UAGEO504

INTERNAL ASSESSMENT (25 marks)

- | | |
|--|----------|
| 1. One class test - | 20 marks |
| 2. Active participation, Overall performance | 5 marks |

EXTERNAL ASSESSMENT (75 marks)

Time: 2 & 1/2 hours Marks: 75 marks

N.B. All questions are compulsory

Q.1	Unit-I (15 marks)	OR	Q.1	Unit-I(15 marks)
Q.2	Unit-II (15 marks)	OR	Q.2	Unit-II (15 marks)
Q.3	Unit-III (15 marks)	OR	Q.3	Unit-III (15 marks)
Q.4	Unit-IV (15 marks)	OR	Q.4	Unit-IV (15 marks)

Q.5 Unit-V (15 marks)

OR

Q.5 Unit-V (15 marks)

(Q.1 to Q.5 may be divided into two sub question - i) one question of 8 marks and another question will be of 7 marks OR Q.1 to Q.5 may be asked fully as a long answer question of 15 marks)

Reference :

- 1) Geography of population – Beaujeu Garnier.
- 2) Geography of Population – J. L. Clarke.
- 3) Principle of Population Studies – Asha Bhende, Tora Kanitkar.
- 4) Geography of Population – Dr. R. C. Chandana.
- 5) Human Geography – Dr. B. S. Negi

UNIVERSITY OF MUMBAI

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

Paper No.VII Economic Geography

(Credit and Grade System with effect from Academic Year 2016-17)

SEMESTER-VI

Economic Geography

COURSE CODE: UAGEO604

UNIT-I

(12 lectures)

Definitions, Nature and Scope of Economic Geography, Concept of Economic Regions, Relation of Economic Geography with Economics and other branches of social sciences, Importance of the study of Economic Geography

UNIT-II

(12 lectures)

Factors of location of economic activities: physical, economic, social and cultural, Sectors of economy: primary, secondary and tertiary, Major primary economic activities- Significance and world types

UNIT-III

(12 lectures)

Classification of industries: Recourse based and foot loose industries, Theories of industrial location: Weber and Losch

UNIT-IV**(12 lectures)**

Modes of Transport and Transport cost: Bases of spatial interaction, Recent trend in international trade, Major trading organizations and trading blocks: WTO, OPEC, ASEAN, SAARC, EFTA, LAFTA, EU, G20, BRICKS etc.

UNIT-V**(12 lectures)**

Economic Development of India, Regional disparities in India, Globalization and Indian economy, its impact on environment, Concept of SEZ and related issues in India

UNIVERSITY OF MUMBAI**QUESTION PAPER PATTERN****Paper No.VII Economic Geography****(Credit and Grade System with effect from Academic Year 2016-17)****SEMESTER-VI****Economic Geography****COURSE CODE: UAGEO604****INTERNAL ASSESSMENT (25 marks)**

- | | |
|--|----------|
| 1. One class test - | 20 marks |
| 2. Active participation, Overall performance | 5 marks |

EXTERNAL ASSESSMENT (75 marks)

Time: 2 & 1/2 hours

Marks: 75 marks

N.B. All questions are compulsory

Q.1	Unit-I (15 marks)	OR	Q.1	Unit-I(15 marks)
Q.2	Unit-II (15 marks)	OR	Q.2	Unit-II (15 marks)
Q.3	Unit-III (15 marks)	OR	Q.3	Unit-III (15 marks)
Q.4	Unit-IV (15 marks)	OR	Q.4	Unit-IV (15 marks)
Q.5	Unit-V (15 marks)	OR	Q.5	Unit-V (15 marks)

(Q.1 to Q.5 may be divided into two sub question - i) one question of 8 marks and another question will be of 7 marks OR Q.1 to Q.5 may be asked fully as a long answer question of 15 marks)

REFERENCE BOOKS-

1. Economic Geography of India- Chatterjee S.P.
2. Indian Economic Development and Social Opportunity- Dreze, J and Sen, A , Oxford University Press, London
3. Principles of Economic Geography- Robinson, A.H. Jones, C.F and darkenwald G.G.
4. The Stages of Economic Growth- Rostow W.W., University Press, London
5. Economic Geography- Chorley, R.J. and Hagget P.
6. Economic Geography- Hartshorne J.N. and Alexander J.W.
7. Regional Planning - Mishra R.P. Concepts, New Delhi
8. Economic and Commercial Geography of India- Mamoria C.B.
9. Agricultural Geography- Singh J and Dhillon S.S., McGeaw Hill, India, New Delhi
10. आर्थिक भूगोल- के.ए. खतीब, अजब प्रकाशन
11. आर्थिक भूगोल- प्रकाश सावंत, फडके प्रकाशन, कोल्हापूर
12. आर्थिक भूगोल- डॉ. विठ्ठल घारपुरे , पिंपळापुरे प्रकाशन
13. अभिनव भूगोल- सवडी, कोळेकर, निराली प्रकाशन, पुणे

UNIVERSITY OF MUMBAI
Syllabus for T.Y.B.A. Geography,
Paper No.VIII-A Agricultural Geography
(Credit and Grade System with effect from Academic Year 2016-17)
SEMESTER-V
Agricultural Geography
COURSE CODE: UAGEO505-A

Unit I (12 lectures)

Introduction to Agricultural Geography: Definitions – Origin of agriculture and Diffusion – Agriculture and human civilization.

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

Unit II (12 lectures)

Major agricultural types in the world: Subsistence agriculture, Commercial agriculture & their sub types, Distribution of major crops in the World.

Unit III (12 lectures)

Agriculture in India- Characteristics of Indian agriculture – Green Revolution in India – Problem associated with Indian agriculture – National Agricultural Policies.

Unit IV (12 lectures)

Agricultural Trade: Role of WTO in agricultural trade practices - Impact of Liberalization, privatization and Globalization on agricultural market

Unit V (12 lectures)

Economics of agricultural land use – Economic development of

agricultural land use model of Lewis/Hoover's – Limitations of the model and its applicability in India
Organic agriculture, Nutritional agriculture
Sustainable development of Agriculture

UNIVERSITY OF MUMBAI

Question Paper Pattern

Paper No.VIII-A Agricultural Geography

(Credit and Grade System with effect from Academic Year 2016-17)

SEMESTER-V

Agricultural Geography

COURSE CODE: UAGEO505-A

INTERNAL ASSESSMENT (25 marks)

- | | |
|--|----------|
| 1. One class test - | 20 marks |
| 2. Active participation, Overall performance | 5 marks |

EXTERNAL ASSESSMENT (75 marks)

Time: 2 & 1/2 hours

Marks: 75 marks

N.B. All questions are compulsory

Q.1	Unit-I (15 marks)	OR	Q.1	Unit-I(15 marks)
Q.2	Unit-II (15 marks)	OR	Q.2	Unit-II (15 marks)
Q.3	Unit-III (15 marks)	OR	Q.3	Unit-III (15 marks)
Q.4	Unit-IV (15 marks)	OR	Q.4	Unit-IV (15 marks)
Q.5	Unit-V (15 marks)	OR	Q.5	Unit-V (15 marks)

(Q.1 to Q.5 may be divided into two sub question - i) one question of 8 marks and another question will be of 7 marks OR Q.1 to Q.5 may be asked fully as a long answer question of 15 marks)

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.

UNIVERSITY OF MUMBAI
Syllabus for T.Y.B.A. Geography,
Paper No.VIII-B Geography of Disaster Management
(Credit and Grade System with effect from Academic Year 2016-17)
SEMESTER-V
Geography of Disaster Management
COURSE CODE: UAGEO505-B

Unit-I (12 lectures)

Introduction to Disaster Management:

Definition of disaster, Difference between hazards, calamity and disaster- Vulnerability, capacity, risk - Disaster management cycle - Disaster management in India - Financial arrangements in Disaster management - Role of NGOs, community based organizations, media and communication in disaster management – Role of geography and GIS in disaster management

Unit-II (12 lectures)

Natural Disaster: Floods and Droughts

Meaning and nature- Types of natural disasters in India – Effects of disasters – Efforts to mitigate disasters

Floods and Droughts with reference to Nature, Geographical distribution, Causes and impact, Forecasting, warning & monitoring, Preparedness and Response, Mitigation - case studies

Unit-III (12 lectures)

Natural Disaster :Cyclone, Earthquakes, Landslides with reference to Nature , Geographical distribution , Causes and impact , Forecasting, warning & monitoring , Preparedness and Response , Mitigation - case studies

Unit-IV (12 lectures)

Man-made disaster : Forest Fire, Terrorism

Distinction from Natural disaster, Causes of man-made disasters, Basic facts of man-made disaster, Need and scope for improving disaster management systems, types of man-made disasters, response to man-made disasters, specific risk reduction and preparedness measures, typical post-disaster needs, case studies

Forest Fire, Terrorism with reference to Nature , Geographical distribution , Causes and impact , Response to man-made disasters, specific risk reduction and preparedness measures, typical post-disaster needs, case studies

Unit-V (12 lectures)

Man-made disaster :Road ,Rail Accidents ,Air and Sea Accidents with reference to Nature , Geographical distribution , Causes and impact , Response to man-made

disasters, Specific risk reduction and preparedness measures, Typical post-disaster needs, case studies

UNIVERSITY OF MUMBAI

QUESTION PAPER PATTERN

Paper No.VIII-B Geography of Disaster Management

(Credit and Grade System with effect from Academic Year 2016-17)

SEMESTER-V

Geography of Disaster Management

COURSE CODE: UAGEO505-B

INTERNAL ASSESSMENT (25 marks)

- | | |
|--|----------|
| 1. One class test - | 20 marks |
| 2. Active participation, Overall performance | 5 marks |

EXTERNAL ASSESSMENT (75 marks)

Time: 2 & 1/2 hours

Marks: 75 marks

N.B. All questions are compulsory

Q.1	Unit-I (15 marks)	OR	Q.1	Unit-I(15 marks)
Q.2	Unit-II (15 marks)	OR	Q.2	Unit-II (15 marks)
Q.3	Unit-III (15 marks)	OR	Q.3	Unit-III (15 marks)
Q.4	Unit-IV (15 marks)	OR	Q.4	Unit-IV (15 marks)
Q.5	Unit-V (15 marks)	OR	Q.5	Unit-V (15 marks)

(Q.1 to Q.5 may be divided into two sub question - i) one question of 8 marks and another question will be of 7 marks OR Q.1 to Q.5 may be asked fully as a long answer question of 15 marks)

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-C Geography of Health

(Credit and Grade System with effect from Academic Year 2016-17)

SEMESTER-V

Geography of Health

COURSE CODE: UAGE0505-C

Unit – I: (12 lectures)

Conceptual background: Concept & components of health:

Physical and Mental

Nature, Scope & Evolution of Health Geography,

Significance and approaches of Health Geography

Unit – II: (12 lectures)

Developmental Change and Human Health- Poverty

Syndrome diet deficiencies

Context of population change, Mobility/migration, Land

Development & Consequences

Urbanization & modern lifestyle: Emerging diseases,

Biometrological influence: influence of weather (summer, winter

& rainy seasons) and seasonality of death

Unit – III: (12 lectures)

Pollution Syndrome: Toxic hazards of natural and economic

Origins

Air, water, noise and land borne diseases-

Effects and remedial measures

Distribution: Regional and intraregional (Global)

Unit – VI: (12 lectures)

Geography of Diseases:

Classification: Communicable and non communicable diseases, Case studies of a) Communicable diseases - Malaria, Hepatitis, HIV – AIDS and Swine Flu.

Case studies of Non Communicable Diseases: Cancer, Cardiovascular, Mental illness & Malnutrition.

Unit – V: (12 lectures)

Distribution of Healthcare Facilities:

Different types of healthcare facilities. Spatial distribution of

Healthcare Facilities in Maharashtra and India

Health Organization: WHO, UNICEF, Red Cross Society and NGOs

Health planning & policy, NRHM

UNIVERSITY OF MUMBAI

QUESTION PAPER PATTERN

Paper No.VIII-C Geography of Health

(Credit and Grade System with effect from Academic Year 2016-17)

SEMESTER-V

Geography of Health

COURSE CODE: UAGE0505-C

INTERNAL ASSESSMENT (25 marks)

- | | |
|--|----------|
| 1. One class test - | 20 marks |
| 2. Active participation, Overall performance | 5 marks |

EXTERNAL ASSESSMENT (75 marks)

Time: 2 & 1/2 hours

Marks: 75 marks

N.B. All questions are compulsory

Q.1	Unit-I (15 marks)	OR	Q.1	Unit-I(15 marks)
Q.2	Unit-II (15 marks)	OR	Q.2	Unit-II (15 marks)
Q.3	Unit-III (15 marks)	OR	Q.3	Unit-III (15 marks)
Q.4	Unit-IV (15 marks)	OR	Q.4	Unit-IV (15 marks)
Q.5	Unit-V (15 marks)	OR	Q.5	Unit-V (15 marks)

(Q.1 to Q.5 may be divided into two sub question - i) one question of 8 marks and another question will be of 7 marks OR Q.1 to Q.5 may be asked fully as a long answer question of 15 marks)

REFERENCES:

1. Banerjee, B. and Hazra J. : Geo-Ecology of Cholera in West Bengal, University of Calcutta, Calcutta 1980.
2. Cliff, A. and Haggett, P. : Atlas of Disease Distribution. Basil Blackwell, Oxford, 1989.
3. Digby, A. and Stewart, L. (eds.) : Gender, Health and Welfare. Routledge, New York, 1996.
4. Hazra, J. (ed.): Health Care Planning in Developing Countries. University of Calcutta, Calcutta, 1997.
5. Learmonth A.T.A. : Patterns of Disease and Hunger. A Study in Medical Geography, David & Charles, Victoria, 1978.
6. May, J.M.: Studies in Disease Ecology, Hafner Pub., New York, 1961.
7. May, J.M.: Ecology of Human Disease, M.D. Pub., New York, 1959.

8. May, J.M.: The World Atlas of Diseases, Nat. Book Trust, New Delhi, 1970.
9. Mc. Glashan, N.D. : Medical Geography, Methuen, London, 1972.
10. Narayan, K.V.: Health and Development- Inter-Sectoral Linkages in India. Rawat Pub.,Jaipur, 1997.
11. Phillips, D.R. : Health and Health Care in the Third world. Longman, London, 1990.
- 12 Pyle, G. : Applied Medical Geography. Winston Halsted Press, Silver Springs, Md, U.S.A., 1979.
- 13 Rais, A. and Learmonth, A.T.A.: Geographical Aspects of Health and Diseases in India. Curriculum Development Committee in Geography 137
14. Shannon, G.M. et. al : The Geography of AIDS. Guilford Press, New York, 1987.
15. Smith, D. : Human Geography - A Welfare Approach. Arnold Heinemann, London,1997.
- 16 Sochin, A.A: Fundamentals of Medical Geography, Dept. of Army Tran, M.J. 5264, Washngington D.C, 1968.
17. Stamp, L.D.: The Geography of Life and Death. Cornell University, Ithaca, 1964.

UNIVERSITY OF MUMBAI
Syllabus for T.Y.B.A. Geography,
Paper No.VIII-A Geography of Transport
(Credit and Grade System with effect from Academic Year 2016-17)
SEMESTER-VI
Geography of Transport
COURSE CODE: UGEO605-A

Unit -I - Introduction of transport geography (12 lectures)

- Concept, nature and scope of transport geography

- Geographic reference of transport
- Significance of transport
- Evolution of transport network

Unit -II - Modes of transport (12 lectures)

- Classification of transport modes
- Land transport (road, railway and pipeline), water transport and air transport – classification, features associated with their development, new trends

Unit -III - Theoretical framework of transport (12 lectures)

- Ulman's concept of spatial interaction
- Taffe's model
- Gravity model
- Network analysis techniques

Unit -IV - Transport policies, development and planning (12 lectures)

- Transport development pattern of different modes of transport
- Problems and policies of development of various modes of transport
- Transport network and economic development

Unit -V - Transport and Urbanization (12 lectures)

- Transport and urban forms (types)
- Urban land use and transportation
- Urban mobility
- Urban transport problems

Case study: Mumbai / Local city

UNIVERSITY OF MUMBAI

QUESTION PAPER PATTERN

Paper No.VIII-A Geography of Transport

(Credit and Grade System with effect from Academic Year 2016-17)

SEMESTER-VI

Geography of Transport

COURSE CODE: UAGEO605-A

INTERNAL ASSESSMENT (25 marks)

1. One class test -

20 marks

2. Active participation, Overall performance 5 marks

EXTERNAL ASSESSMENT (75 marks)

Time: 2 & 1/2 hours

Marks: 75 marks

N.B. All questions are compulsory

Q.1	Unit-I (15 marks)	OR	Q.1	Unit-I(15 marks)
Q.2	Unit-II (15 marks)	OR	Q.2	Unit-II (15 marks)
Q.3	Unit-III (15 marks)	OR	Q.3	Unit-III (15 marks)
Q.4	Unit-IV (15 marks)	OR	Q.4	Unit-IV (15 marks)
Q.5	Unit-V (15 marks)	OR	Q.5	Unit-V (15 marks)

(Q.1 to Q.5 may be divided into two sub question - i) one question of 8 marks and another question will be of 7 marks OR Q.1 to Q.5 may be asked fully as a long answer question of 15 marks)

REFERENCES:

1. Chorley R.J. & Haggett P.: Models in Geogrphahy Methuen & Co. London. 1967.
2. Hurst, M.E.(ed.): Transportation Geography, McGraw-Hill, 1974.
3. Hagget, F and Chorley, R.J. Network Analysis', Edward Arnold, London, 1968.
4. Hay, A.: Transport Economy, MacMillan, London, 1973.
5. Hoyle, B.S.(ed.): Transport and Development, MacMillan, London, 1973.
6. Raza, M. and Agrawal Y.P. : Transport Geography of India, Concept. New Delhi, 1985.
7. Robinson H & Bamford C.G. : Geography of Transport Macdonald & Evans. London 1978.
8. Taffe, E.J. & Gauthier (Jr.) H.L. : Geography of Transportation, Prentice-Hall, Englewood Cliffs, N.J., 1973.
9. Ullman E.L. : American Commodity Flow University of Washington Press 1957.
10. White H.P. and Senior, M.L. Transport Geography, Longman, London, 1983.

UNIVERSITY OF MUMBAI

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

Paper No.VIII-A Geography of Transport

(Credit and Grade System with effect from Academic Year 2016-17)

SEMESTER-VI

Geography of Transport

COURSE CODE: UAGEO605-A

Unit -I - Introduction of transport geography (12 lectures)

- Concept, nature and scope of transport geography
- Geographic reference of transport
- Significance of transport

- Evolution of transport network

Unit -II - Modes of transport (12 lectures)

- Classification of transport modes
- Land transport (road, railway and pipeline), water transport and air transport – classification, features associated with their development, new trends

Unit -III - Theoretical framework of transport (12 lectures)

- Ulman's concept of spatial interaction
- Taffe's model
- Gravity model
- Network analysis techniques

Unit -IV - Transport policies, development and planning (12 lectures)

- Transport development pattern of different modes of transport
- Problems and policies of development of various modes of transport
- Transport network and economic development

Unit -V - Transport and Urbanization (12 lectures)

- Transport and urban forms (types)
- Urban land use and transportation
- Urban mobility
- Urban transport problems

Case study: Mumbai / Local city

UNIVERSITY OF MUMBAI

QUESTION PAPER PATTERN

Paper No.VIII-A Geography of Transport

(Credit and Grade System with effect from Academic Year 2016-17)

SEMESTER-VI

Geography of Transport

COURSE CODE: UGEO605-A

INTERNAL ASSESSMENT (25 marks)

- | | |
|--|----------|
| 1. One class test - | 20 marks |
| 2. Active participation, Overall performance | 5 marks |

EXTERNAL ASSESSMENT (75 marks)

Time: 2 & 1/2 hours

Marks: 75 marks

N.B. All questions are compulsory

Q.1	Unit-I (15 marks)	OR	Q.1	Unit-I(15 marks)
Q.2	Unit-II (15 marks)	OR	Q.2	Unit-II (15 marks)
Q.3	Unit-III (15 marks)	OR	Q.3	Unit-III (15 marks)
Q.4	Unit-IV (15 marks)	OR	Q.4	Unit-IV (15 marks)
Q.5	Unit-V (15 marks)	OR	Q.5	Unit-V (15 marks)

(Q.1 to Q.5 may be divided into two sub question - i) one question of 8 marks and another question will be of 7 marks OR Q.1 to Q.5 may be asked fully as a long answer question of 15 marks)

REFERENCES:

1. Chorley R.J. & Haggett P.: Models in Geogrphay Methuen & Co. London. 1967.
2. Hurst, M.E.(ed.): Transportation Geography, McGraw-Hill, 1974.
3. Hagget, F and Chorley, R.J. Network Analysis', Edward Arnold, London, 1968.
4. Hay, A.: Transport Economy, MacMillan, London, 1973.
5. Hoyle, B.S.(ed.): Transport and Development, MacMillan, London, 1973.
6. Raza, M. and Agrawal Y.P. : Transport Geography of India, Concept. New Delhi, 1985.
7. Robinson H & Bamford C.G. : Geography of Transport Macdonald & Evans. London 1978.
8. Taffe, E.J. & Gauthier (Jr.) H.L. : Geography of Transportation, Prentice-Hall, Englewood Cliffs, N.J., 1973.
9. Ullman E.L. : American Commodity Flow University of Washington Press 1957.
10. White H.P. and Senior, M.L. Transport Geography, Longman, London, 1983.

UNIVERSITY OF MUMBAI

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

Paper No.VIII-B Social Geography

(Credit and Grade System with effect from Academic Year 2016-17)

SEMESTER-VI

Social Geography

COURSE CODE: UAGEO605-B

Unit – I : (12 lectures)
Definition, Nature and Scope of Social Geography - Approaches Possibilistic, Behavioral, Radical and Welfare

Unit – II : (12 lectures)

Concept of social space and socio-cultural regions - Processes of social change-
Modernization, Sanskritization and Globalization

Unit – III : (12 lectures)
Elements of Social Geography- Race, Caste, Language, Ethnicity, Religion, Tribes
(with special reference to India)

Unit – IV : (12 lectures)
Concept and components of welfare and well being - Health Care, Housing and
Education with reference to problems of children, youth and aged

Unit – V : (12 lectures)
Social problems- Concept and Approaches - Tribal Community- their problems and
tribal development programmes - Rural and Urban Communities their problems and
development programmes
Status of women in India.

UNIVERSITY OF MUMBAI

QUESTION PAPER PATTERN

Paper No.VIII-B Social Geography

(Credit and Grade System with effect from Academic Year 2016-17)

SEMESTER-VI

Social Geography

COURSE CODE: UAGEO605-B

INTERNAL ASSESSMENT (25 marks)

- | | |
|--|----------|
| 1. One class test - | 20 marks |
| 2. Active participation, Overall performance | 5 marks |

EXTERNAL ASSESSMENT (75 marks)

Time: 2 & 1/2 hours

Marks: 75 marks

N.B. All questions are compulsory

Q.1	Unit-I (15 marks)	OR	Q.1	Unit-I(15 marks)
Q.2	Unit-II (15 marks)	OR	Q.2	Unit-II (15 marks)
Q.3	Unit-III (15 marks)	OR	Q.3	Unit-III (15 marks)
Q.4	Unit-IV (15 marks)	OR	Q.4	Unit-IV (15 marks)
Q.5	Unit-V (15 marks)	OR	Q.5	Unit-V (15 marks)

(Q.1 to Q.5 may be divided into two sub question - i) one question of 8 marks and another question will be of 7 marks OR Q.1 to Q.5 may be asked fully as a long answer question of

Unit	Title of Topic	Content	No. of Lectures
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15 marks)

References :

- 1) Ahmed A. (1999) Social Geography, Rawat Publication, Jaipur.
- 2) Majid Husain (1994) Social Geography, Anmol Publications Pvt. Ltd., New Delhi.
- 3) Carter and Jones (2000) Social Geography – An Introduction contemporary issues.
- 4) Smith D.M. – Human Geography – a welfare approach.
- 5) Smith D.M. – Geography of Social justice.

1	Introduction and Approaches	A) Introduction to political Geography B) Approaches to the Study of Political Geography - 1)Whittlesey's landscape approach 2) Functional approach 3) Centrifugal & centripetal forces, 4)Unified Field Theory	12
2	Concepts in Political Geography	Concept of Nation & State 1)Territoriality 2)State & Nation 3) State formation 4)Nation building / Nationalism	12
3	Frontiers & Boundaries	1)Definition of frontiers & boundaries 2)Distinction between frontiers & boundaries 3)Genetic, functional & morphological classification of boundaries	12
4	Global Geo-politics	A)Global Geo-Strategic View of Mackinder & Cohen B) Geopolitical Significance of Indian Ocean C) Political Geography of SAARC region	12
5	Political Geography of India	1)Changing political map of India 2)Unity in diversity 3)Stability & instability in state politics 4)Interstate water & language Disputes 5)Problems of border states of India 6)Emergence of new states	12

UNIVERSITY OF MUMBAI

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

Paper No.VIII-C Political Geography

(Credit and Grade System with effect from Academic Year 2016-17)

SEMESTER-VI

Political Geography

COURSE CODE: UAGEO605-C

UNIVERSITY OF MUMBAI

QUESTION PAPER PATTERN

Paper No.VIII-C Political Geography

(Credit and Grade System with effect from Academic Year 2016-17)

SEMESTER-VI

Political Geography

COURSE CODE: UAGEO605-C

INTERNAL ASSESSMENT (25 marks)

- | | |
|--|----------|
| 1. One class test - | 20 marks |
| 2. Active participation, Overall performance | 5 marks |

EXTERNAL ASSESSMENT (75 marks)

Time: 2 & 1/2 hours Marks: 75 marks

N.B. All questions are compulsory

Q.1 Unit-I (15 marks)	OR	Q.1 Unit-I(15 marks)
Q.2 Unit-II (15 marks)	OR	Q.2 Unit-II (15 marks)
Q.3 Unit-III (15 marks)	OR	Q.3 Unit-III (15 marks)
Q.4 Unit-IV (15 marks)	OR	Q.4 Unit-IV (15 marks)
Q.5 Unit-V (15 marks)	OR	Q.5 Unit-V (15 marks)

(Q.1 to Q.5 may be divided into two sub question - i) one question of 8 marks and another question will be of 7 marks OR Q.1 to Q.5 may be asked fully as a long answer question of 15 marks)

Reference Books :

- 1.Alexander L.M (1963): World Political Patterns, Ram McNally, Chicago.
- 2.Political Geography By Sudepta Adhikari, Rawat Publication.
- 3.Dikshit R.D (1996): Political Geography: A Contemporary Perspective, Tata McGraw Hill, New Delhi.
- 4.Dikshit R.D (1999): Political Geography: A Century of Progress, Sage, New Delhi.
- 5.De Blij. H. J And Glassner, M. (1968) Systematic political Geography, John Wiley, New York.
- 6.Pounds N.J.G (1972): Political Geography, McGraw, New York.
- 7.Taylor, R.J.(1989) Political Geography, Longman UK.
8. "Rajkiy Bhugol", A V Bhagwat, PVG Publication, Pune
9. राजकीय भूगोल, विठ्ठल घारपुरे, पिम्पळापुरे प्रकाशन, नागपूर.

UNIVERSITY OF MUMBAI

**Syllabus for T.Y.B.A. Geography,
Paper No.IX Research Methodology
(Credit and Grade System with effect from Academic Year 2016-17)**

**SEMESTER-V
Research Methodology
COURSE CODE: UAGEO506**

Unit I: In Research (9 lectures)

Meaning – Objectives – Structure –Significance – Motivation- Utility- Ethical Consideration in Research – Plagiarism- Types of Research- Issues and Problems in Research

Unit II: Research Methodology (9 lectures)

Meaning of Research Methodology, Stages in Scientific Research Process- Identification and Selection of Research Problem- Formulation- Review of Literature- Hypothesis- Research Design- Sample Design, Qualitative Research, Quantitative Research

Unit III: Data Collection and Data Analysis (9 lectures)

Types and Sources of Data- Observation, Questionnaire Survey, Schedule, Interview. Stages in Data Processing – Editing-Coding- Classification- Tabulation, Data Analysis with Statistical Packages- Excel and SPSS- Diagrammatic representation, Interpretation of Data

Unit IV: Preparation of Research Report (9 lectures)

Structure of scientific reports – Types of report – Different steps in the preparation – Layout, structure and Language of typical reports – Illustrations and tables – Bibliography , referencing and footnotes

Unit V : Research Report (9 lectures)

Journal & Viva

QUESTION PAPER PATTERN

Paper No.IX Research Methodology

(Credit and Grade System with effect from Academic Year 2016-17)

SEMESTER-V

Research Methodology

COURSE CODE: UAGEO506

INTERNAL ASSESSMENT (25 marks)

- | | |
|--|----------|
| 1. One class test - | 20 marks |
| 2. Active participation, Overall performance | 5 marks |

EXTERNAL ASSESSMENT (75 marks)

Time: 4 hours Marks: 75 marks

N.B. All questions are compulsory

- | | |
|---|------------|
| Q.1 Unit-I (with internal option) | (15 marks) |
| Q.2 Unit-II (with internal option) | (15 marks) |
| Q.3 Unit-III (with internal option) | (15 marks) |
| Q.4 Unit-IV(with internal option) | (15 marks) |
| Q.5 Unit-V- Research Report, Journal & Viva | (15 marks) |

REFERENCES

- 1) Garg, B.L, Karadia, R, Agarwal, F and Agarwal, U.K, 2002. An Introduction to Research Methodology, RBSA
- 2) Kothari, C.R, 1990. Research Methodology: Methods and Techniques. New Age International
- 3) Sinha, S.C and Dhiman, A.K. 2002. Research Methodology, ESS Publications, 2 Volumes
- 4) Sharam, B.A.V, etal, (2000) Research Methods in Social Sciences, New Delhi.
- 5) Ghosh, B.N. (1999) Scientific Method and Social Research, New Delhi

UNIVERSITY OF MUMBAI

Syllabus for T.Y.B.A. Geography,
Paper No.IX GIS, GPS and Remote Sensing
(Credit and Grade System with effect from Academic Year 2016-17)

SEMESTER-VI
GIS, GPS and Remote Sensing

COURSE CODE: UAGEO606

Topic No.	Content	Target Lectures
1	<p>Remote Sensing (RS)</p> <p>Concept and History: Definition and Concept of Remote Sensing; History of Indian Remote Sensing;</p> <p>Electro Magnetic Radiation (EMR): Concept of EMR and Electro Magnetic Energy; Properties of EMR: Wavelength and Wave Frequency; Electro Magnetic Spectrum; EMR interaction with atmosphere and Surface;</p> <p>Resolution: Spatial, Temporal, Spectral and Radiometric;</p> <p>Applications: Remote Sensing applications in Geography;</p> <p>Open Data sites of Remote Sensing: Explore/ Access/ open Bhuvan website</p>	09
2	<p>Visual Image Interpretation</p> <p>Tasks of Image Interpretation: Classification, Delineation and Measurement;</p> <p>Elements of Image Interpretation: Tone, Texture, Pattern, Size, Shape, Shadow and association;</p> <p>Visual Image Interpretation: Interpretation of at least four satellite images employing image recognition elements;</p> <p>Thematic Mapping: Generation of thematic maps using trace paper</p>	09
3	<p>Global Positioning System (GPS)</p> <p>Concept: Definition and Concept; Components: User Segment, Space Segment and Control Segment;</p> <p>Types: Handheld GPS and DGPS;</p> <p>Applications: GPS Applications in Geography and general use;</p> <p>Hands-on/ practical: Demarcation of Point, Line and Polygon features using GPS</p>	09
4	<p>Geographical Information System (GIS)</p> <p>Concept and Components: Definition, Concept and Components;</p> <p>Applications: Applications in Geography and related fields;</p> <p>Hands-on/ practical using available or free software- Q GIS: Geo-referencing; Creation of Layers (Digitization): Point, Line and Polygon</p>	09

	features; Query Building: Spatial and Non Spatial; Final Map Layout and Design	
5	Project Work: Project Based on Remote Sensing, GIS and GPS (as per the research methodology)	09

UNIVERSITY OF MUMBAI

QUESTION PAPER PATTERN

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INTERNAL ASSESSMENT (25 marks)

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|--|----------|
| 1. One class test - | 20 marks |
| 2. Active participation, Overall performance | 5 marks |

EXTERNAL ASSESSMENT (75 marks)

Time: 4 hours Marks: 75 marks

N.B. All questions are compulsory

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|-------------------------------------|------------|
| Q.1 Unit-I (with internal option) | (15 marks) |
| Q.2 Unit-II (with internal option) | (15 marks) |
| Q.3 Unit-III (with internal option) | (15 marks) |
| Q.4 Unit-IV(with internal option) | (15 marks) |
| Q.5 GIS Practical, Journal and viva | (15 marks) |

REFERENCES:

1. Campbell J. B., 2007: *Introduction to Remote Sensing*, Guildford Press.

2. Jensen J. R., 2004: *Introductory Digital Image Processing: A Remote Sensing Perspective*, Prentice Hall.
3. Joseph, G. 2005: *Fundamentals of Remote Sensing*, United Press India.
4. Lillesand T. M., Kiefer R. W. and Chipman J. W., 2004: *Remote Sensing and Image Interpretation*, Wiley. (Wiley Student Edition).
5. Nag P. and Kudra, M., 1998: *Digital Remote Sensing*, Concept, New Delhi.
6. Rees W. G., 2001: *Physical Principles of Remote Sensing*, Cambridge University Press.
7. Singh R. B. and Murai S., 1998: *Space-informatics for Sustainable Development*, Oxford and IBH Pub.
8. Wolf P. R. and Dewitt B. A., 2000: *Elements of Photogrammetry: With Applications in GIS*, McGraw-Hill.
9. Heywoods, I., Cornelius, S and Carver, S. (2006) *An Introduction to Geographical Information system*, Prentice Hall.
10. Nag, P. (2008) *Introduction to GIS*, Concept India, New Delhi.