

**RASHTRASANT TUKADOJI MAHARAJ**

**NAGPUR UNIVERSITY NAGPUR**

**SEMESTER SYSTEM SYLLABUS**

**FOR**

**B.A.(Part-I)- Semester-I & II**

**B.A.(Part-II)- Semester-III & IV**

**B.A.(Part-III)- Semester-V & VI**

**GEOGRAPHY**

**(WITH EFFECT FROM 2016-17)**

# **RASHTRASANT TUKADOJI MAHARAJ**

## **NAGPUR UNIVERSITY NAGPUR**

### **SEMESTER SYSTEM SYLLABUS**

#### **FOR**

#### **B.A.GEOGRAPHY**

### **Semester wise Distribution of Marks**

Code	Class	Semester	Theory Paper Marks	Theory Internal Assessment	Code	Practical Marks	Practical Internal Assessment	Total Marks
1T1	B.A. Part-I	I	40	10	1P1	40	10	100
1T2	B.A. Part-I	II	40	10	1P2	40	10	100
2T1	B.A.Part-II	III	40	10	2P1	40	10	100
2T2	B.A.Part-II	IV	40	10	2P2	40	10	100
3T1	B.A.Part-III	V	40	10	3P1	40	10	100
3T2	B.A.Part-III	VI	40	10	3P2	40	10	100
			240	60		240	60	600

## **PATTERN OF EXAMINATION**

### **Theory:**

One theory paper of 40 marks each and of two hours duration will be conducted at the end of each semester.

### **Practicals:**

- 1) One Practical examination of 40 marks of four hour duration in each semester will be conducted at the end of the same semester.
- 2) Practical examination in all six semester will be conducted by Internal and External examiners appointed by the University.

### **Internal Assessment for Theory Examination:**

- 1) Head of the department will carry out internal assessment of the students on the basis of evaluation report from the concerned teacher/ teachers, under the supervision of the principal of the college and will be done at the end of each semester.
- 2) Distribution of 10 marks of internal assessment is as under-

i) Home Assignment	05 marks
iii) Test Exam	05 marks

### **Internal Assessment for Practical Examination:**

i) Test Exam	10 marks
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## **Pattern of Question Paper**

### **Examination U.G. Level Geography**

**B.A.(Part-I)- Semester-I & II**

**B.A.(Part-II)- Semester-III & IV**

**B.A.(Part-III)- Semester-V & VI**

**Time – Two Hours**

**Full Marks-40**

**Instructions- 1) All Questions are compulsory.**

**2) All Question carry equal marks.**

Que.No.1. Long answers question with Internal Choice from any Unit of 08 Marks.

Que.No.2. Long answers question with Internal Choice from any Unit of 08 Marks.

Que.No.3. Two Short answers question with Internal Choice from any Unit of 4X2=08 Marks.

Que.No.4. Two Short answers question with Internal Choice from any Unit of 4X2=08 Marks.

Que.No.5. Four very short answer question without internal choice 4X2=08 Marks.

**Note: 1) One question from each unit.**

**2) Question No.5 should be asked from all 4 units.**

## **Rules and Regulations**

1. There will be four periods per week for theory papers.
2. The batch of Practical class should not be exceeding 16 students.
3. There will be two periods per batch per week for practicals.
4. Passing Marks Theory + Internal =40% (Combined passing).
5. Passing Marks Practical+ Internal =40% (Combined passing).
6. Marks will not be allotted to student if he/she is found absent in study tour.

## **CERTIFICATE**

Department of Geography

Name of College .....

This is to certify that this practical record is the Original Practical works of Shri/ Kumari/ Smt. ....

Class..... Semester..... During the academic year.

He/ She has attended/ not attained the field work/ Study tour prescribed by the RTM Nagpur University Nagpur.

Note: Student will not be allowed to appear in the practical examination without duly signed Practical record by teacher & Head of the Department

Signature of the teacher who taught the examinee

- 1) .....
- 2) .....
- 3) .....
- 4) .....

Head of Department

**Rashtrasant Tukadoji Maharaj Nagpur University Nagpur**  
**B.A.I. Geography**

## **Semester-I (1T1)**

Semester Exam: 40 Marks

Internal Assessment: 10 Marks

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### **Introduction to Geography**

#### **Unit-I**

The Nature of Geography – Meaning, Definition, Scope, Approach, Objectives, Relevance of Geography; Place of Geography in the Classification of Sciences; Branches of Geography; Geography and other disciplines.

#### **Unit-II**

The Physical Dimension in Geography, The Universe; The Solar System: Earth as an Unique Planet, The Earth Movement: Rotation and Revolution, Size and Shape of the Earth, Latitudes, Longitudes & Local time and Time zones, Phase of moon, lunar and solar eclipse.

#### **Unit-III**

Geography as a study of Environment; Man- Environment; Ecology and Ecosystem; Environmental Determinism, Possibilism, Neo-determinism; Dualism in Geography- Systematic/ Regional, Physical / Human; Complementarities.

#### **Unit-IV**

A brief Historical overview of Geography as a discipline- contribution of ancient classical time and modern classical time geographers. Recent Trends in Geography with special reference to India; Imperatives for the future; Career Opportunities for Geographers. Contribution of ancient classical time and modern period classical time geographers.

**Rashtrasant Tukadoji Maharaj Nagpur University Nagpur**

**B.A.I. Geography**

**Semester-I (1P1)**

## **Practical Geography**

Semester Practical Examination Marks:40

Internal Assessment: 10

### **Unit-I:**

Meaning Definition, Nature & Scope of Cartography, Globe & Maps, Essentials of maps, History of Map-Making, Types & Uses of Maps.

### **Unit-II:**

Scale:

(A) Conversion of Scale: Statement to R.F. & R. F. to Statement

(B) Linear Scale:-

- a) Simple Scale
- b) Comparative scale: Time and Distance
- c) Diagonal Scale

### **Unit-III**

Statistical Method

- a) Tabulation, Seriation and frequency distribution
- b) Measures of central tendency: Mean Median and Mode.

### **Plan of Practical Examination**

The following plan will be strictly followed to test the skill developed by the students.

- 1) Introduction to Cartography (5 Marks)
- 2) Scale (Two Problems) (10 Marks)
- 3) Statistical method- Tabulation Seriation and  
Frequency distribution (5 Marks)
- 4) Statistical method- Central tendency (Two Problems) (10 Marks)
- 5) Viva-voce (5 Marks)
- 6) Practical Records, (5 Marks)

### **Internal Assessment:**

Test Exam (10 Marks)

**Rashtrasant Tukadoji Maharaj Nagpur University Nagpur**

**B.A.I. Geography**

**Semester-II (1T2)**

Semester Exam: 40 Marks

Internal Assessment: 10 Marks

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**Physical Geography (Climatology)**

**Unit-I**

Meaning, Scope and significance of Climatology, Atmospheric composition and structure, Elements of Weather and Climate, Insolation: Determinants & Distribution; Global energy Budget.

**Unit-II**

Temperature: Factors, Horizontal & Vertical Distribution of Temperature and Processes of Heating & Cooling of the Atmosphere, pressure and wind, Vertical and Horizontal Distribution of Pressure, Planetary, Periodic and local winds, Monsoon.

**Unit-III**

Atmospheric Moisture, Humidity, Evaporation and Condensation; Precipitation: Forms & Types; Rainfall; Air Masses and Fronts,; Concepts, Classification and Properties.

**Unit-IV**

Atmospheric disturbances, Cyclones; Tropical & Temperature; Anticyclones, Thunderstorms and Tornadoes; Climatic Classification: Basis of Koppens Classification and types, Role of Climate in Human Life, Global Warming- General causes, Consequences and Measures of control.



## **Rashtrasant Tukadoji Maharaj Nagpur University Nagpur**

### **B.A.I. Geography**

#### **Semester-II(1P2)**

Semester Practical Examination Marks:40

Internal Assessment: 10

#### **Unit-I:**

Preparation of climatic maps and diagrams-

- a) Preparation of Isopleths showing temperature, pressure and rainfall. (Each Two Examples)
- b) Construction of Histogram, Hythergraph, Windrose Diagram and Taylor's Climograph.

#### **Unit-II:**

Study of Indian daily Weather Maps: Showing summer, Rainy seasons and winter condition.

#### **Unit-III:**

Study of following weather instruments:

- a) Maximum and minimum thermometer.
- b) Barometer
- c) Dry and Wet Bulb Thermometers
- d) Rain Gage and Anemometer & Wind vane

#### **Unit-IV**

Instrumental Survey- Plane table Survey- Methods & Type.

### **Plan of Practical Examination**

The following plan will be strictly followed to test the skill developed by the students.

- 1) Preparation of climatic maps and diagrams
  - a) Isopleths (6 Marks)
  - b) Diagrams (Two Problems) (8Marks)
- 2) Study of Indian daily Weather Maps (6 Marks)
- 3) Surveying (6 Marks)
- 4) Weather instruments (4 Marks)
- 5) Viva-voce (5 Marks)
- 6) Practical Record, Attendance and Punctuality (5 Marks)

#### **Internal Assessment:**

Test Exam (10 Marks)

## **Suggested Readings**

1. Contemporary American Geography; Routledge New Jersey 1992
2. Dikshit R.D. Geographical Thought- A contextual History of Ideas. Prentice Hall of India Pvt. Ltd 2000.
3. Dohrs. F. E. and Sommers, L.W. (eds.) Introduction to Geography, Thomas Y. Crowell Co. Chicago, 1959.
4. Harvey, David: Explanation in Geography Edward- Arnold, London, 1972.
5. Holt-Jensen, A Geography: Its History and Concepts, Longmans, 1980
6. Husain, Majid: Evolution of Geographical Thought, Rawat Publications, Jaipur, 1984
7. James, P.E. All Possible Worlds: A History of Geographical Ideas. Sachin Publication, Jaipur.
8. Johnston, P.J. and Claval, P. (eds) Geography Since the Second World War. Croom Helm London/ Bernes and Noble, N.J. 1984
9. Jones, P.A.: Field work in Geography, Longmans 1968
10. Lownsburg J.F. and Aldrich F.T. Introduction to Geographical Methods and Techniques, Charles Merrill., Columbus, 1979.
11. Matthews J.A. and Herbert D.T.; Geography; A very short introduction, Oxford university press New York 2009
12. Minshull, R: The changing Nature of Geography. Hutchinson University Library, London, 1970
13. Wooldridge S.W.: The Geographer as Scientist, Thomas Nelson and Sons Ltd. London. 1956.
14. Barry, R. G. and Carleton, M. (2001): Synoptic and Dynamic Climatology, Routledge, London.
15. Chorley, R.J. (2001): Atmosphere, Weather, Methuen, and London.
16. Critchfield, H. J. (2002): General Climatology. Prentice- Hall of India, New Delhi.
17. Finch, J.E. and Trewartha .G.T.: Elements of weather and Climate. Prentice –Hall London.
18. Kendrew W.e. (1998): Climatology. Edward Arnold London 5<sup>th</sup> edition.
19. Lal, D.S. (1986): Climatology. Chaitanya Publications, Allahabad.
20. Oliver J.E. and Hidore, J.J. (2003): Climatology: An Atmospheric Science, Pearson Education Private Ltd. Pratapganj, Delhi.
21. Robinson P.J. and Henderson, S. (1999): Contemporary Climatology, 2<sup>nd</sup> edition, Pearson Education Ltd. Harlow, UK.
22. Singh M.B. (1998): JalvayuAvamSamudraVigyan. Tara Book Agency, Varanasi.
23. Singh M.B. (1999): JalvayuAvamSamudraVigyan. Tara Book Agency, Varanasi.
24. Singh S. (2005): Climatology. PrayagPustakBhawan, Allahabad.

25. Singh S. (2006): Climatology. PrayagPustakBhawan, Allahabad.
26. Anthes, R. (1997) Meteorology, Seventh Edition PHI, New Delhi.
27. F. J. Mankhouse- maps and Diagram- B.L. Publication Pvt. Ltd.
28. डॉ. वेळापूरकरडॉ. के. बी. कनकुरे "भौगोलिकविचारधारांचाविकास" संध्या उगाडेप्रकाशनउदगिर.
- 29ण प्रा. के. टी. कोलते, प्रा. श्रीमती. सुमतीकुबडे, प्रा. माधवपूराणिक: भूगोलशास्त्राचीमूलतत्त्वे, विद्य प्रकाशननागपूर.
- 30ण डॉ. जयकूमरमगर : हवामानशास्त्र, विद्याप्रकाशन, नागपूर.
- 31ण डॉ. पी.एम. नागतोडे: हवामानपरिचय, विद्याप्रकाशन, नागपूर.
- 32ण डॉ. सारंग: प्राकृतिकभूविज्ञान, विद्याप्रकाशन, नागपूर.
- 33ण प्रा. डी. वाय. अहिरावआणिप्रा.इ.के. करंजखेले: प्रात्याक्षिकभूगोल, सुदर्शनप्रकाशन.
- 34ण डॉ. जयकूमरमगर व डॉ. जगताप: प्रात्याक्षिकभूगोलभाग 1, 2, 3 विद्याप्रकाशननागपूर.
- 35ण डॉ. अर्जुनकुंभार : प्रात्याक्षिकभूगोल.
- 36ण डॉ. डी.एस.लाल : जलवायुविज्ञान
- 37ण डा. अल्कागौतम : जलवायु एव सागरविज्ञान
- 38ण सिहरविंद्र : भौतिकभूगोल
- 39ण भार्मा : प्रायोगिकभूगोल 40. हिरालालप्रायोगिकभूगोल

**Rashtrasant Tukadoji Maharaj Nagpur University Nagpur**

**B.A.II. Geography**

**Semester-III (2T1)**

Semester Exam : 40 Marks

Internal Assessment: 10 Marks

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**Geomorphology**

**Unit-I-**

The nature and scope of physical Geography, The place of Geomorphology in physical Geography, Geological time scale, Earth's interior, Rocks- origin and composition, types & their characteristics.

**Unit-II**

Wegner's theory of continental Drift, Plate tectonic, Isostasy, Earth movements-orogenic and eperogenic, Earthquakes and volcanoes.

**Unit -III**

Weathering, Geomorphic agents and process-erosion, transportation and deposition, Concept of cycle of erosion, Interruption of cycle of erosion.

**Unit -IV**

Fluvial, Glacial, Arid, Karst and Coastal landforms.

## **Rashtrasant Tukadoji Maharaj Nagpur University Nagpur**

### **B.A.II. Geography**

### **Semester-III (2P1)**

### **Practical Geography**

Semester Practical Examination Marks:40

Internal Assessment: 10

#### **Unit-I**

Preparation of relief Maps and diagrams.

- a) Representation of different landforms by contours
- b) Study of contours maps representing different relief features with the help of profiles.

#### **Unit-II**

Drawing of profiles- Serial, superimposed, composite and projected and their relevance in landform analysis.

#### **Unit-III**

Study of topographical Maps-Classification and scale, interpretation of GOI toposheets of a hilly, plateau and plain area of India in respect of (i) relief, (ii) drainage (iii) Settlement, (iv) communication pattern.

### **Plan of Practical Examination**

The following plan will be strictly followed to test the skill developed by the students.

1. Representation of different landforms by using contours (5 Marks)
2. Study of Contour maps representing different relief features with the help of profiles. (5 Marks)
3. Drawing of Profiles- serial, superimposed and compound (10 Marks)
4. Question on the study of topographical maps.  
(I) Classification of Maps & Scale of GOI toposheets (5 Marks)  
(II) Interpretation of topographical Map. (5 Marks)
5. Viva-voce. (5 Marks)
6. Practical record, attendance and punctuality (5 Marks)

#### **Internal Assessment:**

Test Exam (10 Marks)

## **Rashtrasant Tukadoji Maharaj Nagpur University Nagpur**

### **B.A.II. Geography**

### **Semester-IV (2T2)**

Semester Exam: 40 Marks

Internal Assessment: 10 Marks

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## **Human Geography**

### **Unit-I**

Nature and scope of human geography, Branches of human geography. Human races-meaning, criteria of racial types, brief history of racial classification, races of India.

### **Unit-II**

Early economic activities of mankind, food gathering, hunting, fishing and shifting cultivation. Human adaptation to the environment (i) Cold region- Eskimo!, Hot region- Bushman, Beduin, (iii) Plateau- Gonds, Masai (iv) Mountain- Gujjars.

### **Unit-III**

Distribution of world population, physical, economic and social factors influencing spatial distribution, concepts of over, under and optimum population. Population Theories- classical and modern. Migration- aspects of migration, major migrations of the world, effects of migration.

### **Unit-IV**

Population regions of India, problem of over population in India, remedial measures, Population policies in India.

## **Rashtrasant Tukadoji Maharaj Nagpur University Nagpur**

### **B.A.II. Geography**

#### **Semester-IV (2P2)**

#### **Practical Geography**

Semester Practical Examination Marks:40

Internal Assessment: 10

#### **Unit-I:**

Construction Merits, Demerits, characteristics and uses of the following Projections-

- (i) Simple cylindrical projection
- (ii) Cylindrical equal area projection
- (iii) Conical projection with one standard parallel
- (iv) Conical projection with two standard parallel.

#### **Unit-II:**

Use of Statistical method-

Measuring of dispersions

- (i) Mean Deviation, (ii) Quartile Deviation, (iii) Standard Deviation

#### **Unit-III:**

Use of line and Bargraphs for representing population, agriculture, industry and transport data. (Simple, multiple and compound)

#### **Unit-IV**

Field study of topographical features.

### **Plan of Practical Examination**

The following plan will be strictly followed to test the skill developed by the students.

- |   |           |
|---|-----------|
| 1.(a) Construction of Projection                | (8 Marks) |
| (b) Merits, demerits and use of projection      | (2 Marks) |
| 2. Statistical Method (Two Examples)            | (8 Marks) |
| 3. (a) Use of Bargraphs                         | (4 Marks) |
| (b) Use of Linegraphs                           | (4 Marks) |
| 4. Field Study of topographical features        | (4 Marks) |
| 5. Viva-voce.                                   | (5 Marks) |
| 6. Practical record, attendance and punctuality | (5 Marks) |

#### **Internal Assessment:**

Test Exam	(10 Marks)
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# **Rashtrasant Tukadoji Maharaj Nagpur University Nagpur**

## **B.A.III. Geography**

### **Semester-V (3T1)**

Semester Exam: 40 Marks

Internal Assessment: 10 Marks

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## **Geography of Maharashtra**

### **Unit-I**

Maharashtra- Geographical location and extent, Administrative divisions.

Physiography and drainage- Main physiographic divisions, Drainage pattern.

### **Unit-II**

Climate- Regional and seasonal variations, Major climatic regions.

Forest- Major forest types and their distribution, forest conservation.

Soil- Major soil types and their distribution, soil conservation.

### **Unit-III**

Agriculture- Production and distribution of major crops (Rice,Wheat, Cotton,Sugarcane)

Industries –Major agro based industries- (Cotton textile, sugar)

Major Industrial regions.

Mineral and power resources-Distribution and utilization of Iron ore,

Manganese, Coal and major hydro and thermal power projects.

Tourism- Importance, factors influencing, development of Tourism, Tourism in Maharashtra.

### **Unit-IV**

Population- Distribution, Density, growth and problems, urbanization,

Migration - causes and effects.



## **Rashtrasant Tukadoji Maharaj Nagpur University Nagpur**

### **B.A.III. Geography**

#### **Semester-V (3P1)**

#### **Practical Geography**

Semester Practical Examination Marks:40

Internal Assessment: 10

#### **Unit-I:**

Enlargement & Reduction by Graphical Method.

#### **Unit-II:**

a) Prismatic Compass Survey

I) Correction of Bearings

II) Plotting of Bearing and Closing Error.

#### **Unit-III:**

Representation of Statistical Data

a) Diagrams- I) Divided Circle (Pie)

ii) Divided Rectangle

iii) Pyramid- Simple, Compund.

b) Maps- I) Dot II) Proportional Circle III) Choropleth

### **Plan of Practical Examination**

The following plan will be strictly followed to test the skill developed by the students.

1.Enlargement and Reduction (5 Marks)

2. (a) Correction of Bearings (4 Marks)

(b) Plotting and closing error. (6 Marks)

3. (a) Preparation of diagrams. (7 Marks)

(b) Preparation Maps. (8 Marks)

5. Viva-voce. (5 Marks)

6. Practical record, attendance and punctuality (5 Marks)

#### **Internal Assessment:**

Test Exam (10 Marks)

## **Rashtrasant Tukadoji Maharaj Nagpur University Nagpur**

### **B.A.III. Geography**

#### **Semester-VI (3T2)**

Semester Exam: 40 Marks

Internal Assessment: 10 Marks

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### **Geography of India**

#### **Unit-I**

India in the context of Southeast and South Asia; India: a land of diversities; unity within diversities.

Major terrain elements of India and their role in shaping physical landscape of India. Drainage systems of India and their functional significance.

#### **Unit-II**

Regional and seasonal variations of climate- The monsoon, Climatic regions of India. Soil types of India, Vegetation types and distribution.

Forest, minerals (Iron-ore, Manganese) and power resources(Coal, Petroleum & Hydro-electricity). The status of their use the need for conservation.

#### **Unit-III**

Spatial distribution of population and density, age, sex and literacy structure, Green Revolution; regionalisation of Indian agriculture

#### **Unit-IV**

Industries- Iron & steel, Cotton textile, Sugar Industries., Industrial regions of India, composition of domestic and international trade.

## **Rashtrasant Tukadoji Maharaj Nagpur University Nagpur**

### **B.A.III. Geography**

#### **Semester-VI (3P2)**

#### **Practical Geography**

Semester Practical Examination Marks: 40

Internal Assessment: 10

#### **Unit-I:**

Dumpy Level Survey- Use of Dumpy Level

- a) Preparation of field Book (Rise and fall Method and Collimation Method)
- b) Drawing of Profile.

#### **Unit-II:**

Introduction to modern Techniques.

(a) Equipments of Air Photography, types of Air Photographs, Scales of Air Photographs, interpretation of Air Photographs, merits and demerits of Air Photographs.

(b) GIS and Remote Sensing- Introduction to GIS, Fundamentals of GIS-spatial and concepts and spatial relationship, Definition of R.S., R.S. Platforms and scanners, R.S. as a tool for data generation and mapping.

#### **Unit-III:**

Meaning and Computation of Correlation, Correlation Co-efficient by Karl Pearson's and Spearman's Method.

#### **Unit-IV**

Field Work and Field Report. Socio-economic Survey of Small Village.

#### **Plan of Practical Examination**

The following plan will be strictly followed to test the skill developed by the students.

1. Problem on levelling
  - (a) Preparation of field book (6 Marks)
  - (b) Drawing of Profile (4 Marks)
2. Introduction to Modern techniques
  - (a) Aerial photographs (4 Marks)
  - (b) G.I.S. and Remote Sensing (6 Marks)
3. Computation of correlation (5 Marks)
4. Field Survey report (5 Marks)
5. Viva-voce. (5 Marks)
6. Practical record, attendance and punctuality (5 Marks)

#### **Internal Assessment:**

Test Exam (10 Marks)