

Re-Accredited with 'A' Grade by NAAC - 2011
Government College (Autonomous)
(College with Potential for Excellence-2016-2021)
Rajamahendravaram



ESTD. 1853

DEPARTMENT OF GEOGRAPHY
BOARD OF STUDIES
(Modular and Choice based credit system)
(Teaching system of PEDAGOGY)
2019-2020

PREFACE

THE DEPARTMENT OF GEOGRAPHY

Geography is the study of Earth's crust. It deals with physical, social, and economic aspects. It is presumed that the Department of Geography was established in the year 1958. The subject Geography is under part – II at undergraduate level. This is the first Government College in Andhra Pradesh to have this subject of Geography at undergraduate level. The requisite of qualification to join in this group is completion of intermediate/10+2 with any subject. The college was declared autonomy during the year 2000-01. Presently there are two combinations i.e. B.A GHP group and B.Sc GGC group. This B.Sc Geography, Geology and Computer Science group was introduced during the year 2008 – 09. This group is a feed back to Geo-informatics for post graduation. Presently, Geography course under part – II optional paper. We admit the programme 30 students in each combination peryear.

Proceedings of the Principal, Government Autonomous College, Rajamahendravaram

Present: Dr.R.David Kumar Swamy, M.Sc, M.Phil., Ph.D

Rc. No: Spl./Acad.Cell-GCIA1-R.IY/BOS/2018-1, Dated: 17April 2018

Sub:-Government Autonomous College, Rajamahendravaram– **Boards of Studies (BoS) –**
Nomination of Members - Orders Issued.

Ref:- UGC Guidelines for Autonomous Colleges - 2018.

ORDER:

The Principal, Government Autonomous College, Rajamahendravaram is pleased to constitute **Board of studies in GEOGRAPHY** for framing the syllabi in Geography subject for all semesters duly following the norms of the UGC Autonomous guidelines.

S. No	Name	Designation
1	Lt. D. Rudra, Lecturer In- Charge, Department of Geology, GC[A], Rajamahendravaram	Chairman
2	All Faculty members in the department	Member
3	K. Somaiah, DNR College, Bhimavaram	Subject Expert
4	K.C.S.V. Ramana, YN College [A], Narasapur	Subject Expert
5	Prof. Y. SrinivasaRao, Dept. of Geology, ANUR	University Nominee
6	A. SrinivasaRao	Student Nominee

The above members are requested attend the BOS meetings and share their valuable views, suggestions on the following functionalities:

- Prepare syllabi for the subject keeping in view the objectives of the college, interest of the stake holders and national requirement for consideration and approval of the Academic Council
- Suggest methodologies for innovate teaching and evaluation techniques
- Suggest panel of names to the Academic council for appointment of examiners
- Coordinate research, teaching, extension and other activities in the department of the college.

The term of the members will be Three years from the date of the nomination. The Chairman of the BoS (HoD/lecturer In-Charge of the department) is directed to coordinate with the Principal of the College and conduct BoS meetings as and when necessary, but at least twice a year.



PRINCIPAL
GOVERNMENT COLLEGE [A]
RAJAHMUNDRY

Copy to:

1. The above individuals
2. File

**Composition of Board of Studies
Department of Geography
Government College [A], Rajamahendravaram**

S. No	Name	Designation
1	Lt. D. Rudra, Lecturer In- Charge, Department of Geology, GC[A], Rajamahendravaram	Chairman
2	All Faculty members in the department	Members
3	K. Somaiah, DNR College, Bhimavaram	Subject Expert
4	K.C.S.V. Ramana, YN College [A], Narasapur	Subject Expert
5	Prof. Y. SrinivasaRao, Dept. of Geology, ANUR	University Nominee
6	M. Mukherjee	Old Student Nominee
7	Dr. R. David Kumar, Principal, GC[A], RJY	Special Invitee

**GOVERNMAENT COLLEGE (AUTONOMOUS),
RAJAMAHENDRAVARAM**

DEPARTMENT OF GEOGRAPHY

Consolidated Report of Board of Studies for the Year 2019-2020

The board of studies of Geography Department was convened on _____ at _____ under the chairmanship of _____ the following member were present.

Name		signature
	University Nominee Local nominee Local nominee Subject expert from industry Staff member Staff member Staff member Student Student Student	

The following documents are submitted to the academic coordinator and controller of examination:

1. Resolutions of board of studies meeting.
2. Syllabus of I, III, and V semesters.
3. Model question papers of all subjects I, III, and V semesters.
4. List of revised examiners (if any)
5. Any other new proposal

Date

Chairman
Board of studies
Department of Geography

**GOVERNMENT COLLEGE (AUTONOMOUS): RAJAMAHENDRAVARAM
DEPARTMENT OF GEOGRAPHY**

Board of studies 2019-2020(Modular and Choice based credit system)

Year	Semester	Paper	Paper Type	Paper Title	Hours/week	Max Marks	Credits
I	1	1	Compulsory	Geography of India	4	50+50	3
				Practicals - Maps and Scales	3	50	2
I	2	2	Compulsory	Physical Geography - I (Geomorphology)	4	50+50	3
				Practicals - Representation of Physical features	3	50	2
II	3	3	Compulsory	Physical Geography - II (Climatology and Oceanography)	4	50+50	3
				Practicals - Representation of Climatic Data	3	50	2
II	4	4	Compulsory	Human Geography	4	50+50	3
				Practicals - Map Projections	3	50	2
III	5	5	Compulsory	Economic Geography	3	50+50	3
				Practicals - Maps & Diagrams	3	50	2
III	5	6	Compulsory	Principles of Remote Sensing	3	50+50	3
				Practicals - Remote Sensing	3	50	2
III	6	7	Elective - 1	Geographical Information System	3	50+50	3
				Practicals - Geographical Information System	3	50	2
			Elective - 2	Disaster Management	3	50+50	3
				Practicals - Weather Instruments	3	50	2
			Elective - 3	Environmental Geography	3	50+50	3
				Practicals - Cartographic Techniques	3	50	2
III	6	8A1	Cluster Paper 1	Regional Geography of Asia	3	50+50	3
				Practicals - Surveying with Instruments	3	50	2
		8A2	Cluster	Regional Geography of South	3	50+50	3

			Paper 2	East Asia			
				Practical - Representation of Statistical Data	3	50	2
		8A3	Cluster Paper 3	Regional Geography of South West Asia	3	50+50	3
				Project Work - Socio Economic Survey		50	2
		8B1	Cluster Paper 1	Regional Geography of Andhra Pradesh	3	50+50	3
				Practicals - Interpretation of Weather Maps	2	50	2
		8B2	Cluster Paper 2	Regional Geography of Coastal Andhra	3	50+50	3
				Practicals - Weather Instruments	3	50	2
		8B3	Cluster Paper 3	Regional Geography of Rayalaseema	3	50+50	3
				Project Work - Industrial Visit		50	2
		8C1	Cluster Paper 1	Regional Planning and Development	3	50+50	3
				Practicals - Quantitative Techniques in Geography	3	50	2
		8C2	Cluster Paper 2	Urban Geography	3	50+50	3
				Practicals - Computer Aided Statistical Diagrams and Graphs	3	50	2
		8C3	Cluster Paper 3	Rural Geography	3	50+50	3
				Practicals - Project Work based on field survey		50	2

GOVERNMENT COLLEGE (AUTONOMOUS), RAJAMAHENDRAVARAM

DEPARTMENT OF GEOGRAPHY

Board of Studies Meeting 2019 – 2020

RESOLUTIONS:

1. Resolved and approved the B. A. / B. Sc., I, III and V Semesters are Revised teaching system of PEDAGOGY approved for the academic year 2019 –2020.
2. Resolved and approved B.A / B. Sc., I, III and V Semesters conducted practical examinations semester wise. Each practical paper 50marks.
3. Resolved and approved Examination structure 50:50 (50 CIA: 50SEE) is revised and approved for the academic year 2019-2020
4. Resolved and approved the B. A. / B. Sc., I, III and V Semester and Revised Syllabus is approved for the academic year 2019 –2020.
5. Resolved and approved the revised B. A. / B. Sc., I, III and V semesters Model Question Papers are approved for the academic year 2019 –2020.
6. Resolved and approved the B. A. / B. Sc., I, III and V semesters syllabus for Practical Examinations approved for the academic year 2019 –2020
7. Resolved and approved the revised B. A. / B. Sc., I, III and V semesters Model Question Papers for Semester wise Practical Examinations approved for the academic year 2019 – 2020.
8. Resolved and approved the List of Theory and Practical External Examiners for I, III, V Semesters and I, II, III B. A. / B. Sc., for the academic year 2019 –2020.

University Nominee

Local Nominee

Chairman Board of Studies
Department of Geography

GOVERNMENT COLLEGE (AUTONOMOUS), RAJAMAHENDRAVARAM
DEPARTMENT OF GEOGRAPHY
SYLLABUS – 2019-2020
FIRSTYEAR B.A. /B.Sc. SEMESTER-I

PAPER -1: GEOGRAPHY OF INDIA

UNIT - 1 :

1. India Location – Relief – Structure -Climate.
2. India – Soils – NaturalVegetation

UNIT – 2 :

- 1 India – Population Growth – Distribution – Density -Literacy.
- 2 Human Settlements – Types -Urbanization.

UNIT – 3 :

1. India – Irrigation system - Multi PurposeProjects.
2. Energy and Mineral recourses – Coal – Iron ore – Mica. Power projects.

UNIT – 4 :

1. Industries – Iron and steel – Cotton textile –Sugar industry

UNIT – 5 :

1. Indian Transportation –Roadways, Railways, Airways and Waterways.

Basic Texts:

1. Sharma and Coutino(1980) Economics and Commercial Geography of India, Vikas Publication, NewDelhi.
2. Spate, O.H.K. and Learmonth, A.T.A (1972) India and Pakisthan, B.I. Publications, Madras.
3. Prithvish Nag and Sengupta, S. (1999) Geography of India, Concept, NewDelhi.
4. Alam, M.S. (1974) Planning Atlas of Andhra Pradesh, Govt of India and Andhra Pradesh,Hyderabad.

Additional Texts:

1. Sing, R.L. (1976) Regional Geography of India, NGSI, BHU,Varanasi.
2. Mamoria, C.B (1995)Economic and Commercial Geography of India, Shiva LalAgarwala,Agra.

Approved

GOVERNMENT COLLEGE (AUTONOMOUS), RAJAMAHENDRAVARAM
DEPARTMENT OF GEOGRAPHY
MODEL QUESTION PAPER - 2019-2020
FIRST YEAR B.A. / B.Sc. SEMESTER - 1

PAPER – I: GEOGRAPHY OF INDIA

Time: 2 ½ Hrs

Max.Marks: 50

PART – A

Answer any three of the following Questions

3 X 10 = 30M

ఈక్రింది వానిలో ఏవైనా మూడింటికి సమాధానములు వ్రాయుము?

- 1). What are the Major Physical Divisions of India? Explain any One of them?
భారత దేశమునందు వైసర్లిక స్వరూపములు పేర్కోని అందు ఏదైనా ఒకదానిని గూర్చి వివరింపుము?
- 2). Classify the Soils and write their distribution in India ?
భారత దేశములోని మృత్తికా రకాలను వర్గీకరించి వాటి విస్తరణ గూర్చి వ్రాయుము?
- 3). Write an account on Growth and distribution of Population in India?
భారత దేశములోని జనభా పెరుగుదల మరియు విస్తరణ గూర్చి వ్రాయుము?
- 4). Write an account on Urbanization in India?
భారత దేశములోని నగరీకరణ గూర్చి వివరముగా వ్రాయుము?
- 5). Write an account on Major Irrigation Projects in India
భారత దేశములోని ప్రధాన నీటిపారుదల ప్రాజెక్టులు గూర్చి వివరముగా వ్రాయుము?
- 6). Write a detailed account of Production and distribution of Coal in India ?
భారత దేశములోని బొగ్గు ఉత్పత్తి విస్తరణను గూర్చి వివరముగా వ్రాయుము?
- 7). Write a Geographical essay on the growth and development of Cotton textiles industry in India?
భారత దేశములోని నూలు వస్త్రము యొక్క పెరుగుదల, అభివృద్ధి గురించి భౌగోళిక వ్యాసము వ్రాయుము?

PART - B

WRITE SHORT NOTES ON ANY THREE OF THE FOLLOWING

ఈక్రింది వానిలో ఏవైనా మూడింటికి సమాధానములు వ్రాయుము?

3 X 5 = 15M

8. South West Monsoons – నైరుతి ఋతు పవనాలు
9. Indian Literacy - భారతీయ అక్షరాస్యత
10. Mica - అభ్రకం
11. Airways in India - భారత దేశంలోని వాయు మార్గాలు
12. Bhakranagal Project - భాక్రానంగల్ ప్రాజెక్టు

PART - C

13. Locate the following on the outline map of the India..

5x1= 5M

ఈక్రింది అంశములను మీకివ్వబడిన భారత దేశ పటమునందు గుర్తించుము

- Westren Ghats - పశ్చిమ కనుమలు
- Delhi - ఢిల్లీ
- Kolkata కోల్కత
- Arabian Sea ఆరేబియా సముద్రము
- River Tapati తపతి నది

Approved

GOVERNMENT COLLEGE (AUTONOMOUS), RAJAMAHENDRAVARAM
DEPARTMENT OF GEOGRAPHY
PRACTICAL SYLLABUS -2019-2020
FIRST YEAR B.A. /B.Sc. SEMESTER - 1

PRACTICAL PAPER– I : MAPS AND SCALES

1. Introduction to Cartography.
2. Maps and their types.
3. Scales. Exercises
 - (i) Methods and Types of Scales
 - (ii) Conversion of Statement of Scale into R.F. and vice-versa.
 - (iii) Plain Scale OR Graphic Scale (Km and mile)
 - (iv) Diagonal Scale 2
 - (v) Measurements of distances and areas of Maps 2

Suggested Readings:

1. F.J. Monkhouse and H.R. Wilkinson (1972) Maps and Diagrams, Methuen and Co. Ltd., London
2. L.R. Singh and Raghuvander Singh (1973), Map Work and Practical Geography, Central Book Depot, Allahabad.
3. R.L. Singh and P.K. Dutt (1968), Elements of Practical Geography, Students Friends, Allahabad.
4. Singh Gopal (2004) 4th edition, Map Work and Practical Geography, Vikas Publication House.

Approved

GOVERNMENT COLLEGE (AUTONOMOUS), RAJAMAHENDRAVARAM
DEPARTMENT OF GEOGRAPHY
MODEL PRACTICAL QUESTION PAPER - 2019-2020
FIRST YEAR B.A. /B.Sc. SEMESTER -1

PRACTICAL PAPER – I : MAPS AND SCALES

Time: 2 ½ Hrs

Max.Marks: 50

ANSWER ALL THE QUESTIONS

ఈ క్రింది వాటికి సమాధానములు వ్రాయుము.

1. Construct a graphic scale with the given scale? 20 M
మీకివ్యబడిన స్కేల్ అధారంగా గ్రాఫిక్ స్కేల్ను గీచి నిర్మాణ క్రమము వ్రాయుము?
2. Construct a diagonal scale with the given scale 20 M
మీకివ్యబడిన స్కేల్ అధారంగా ఐముల స్కేల్ను గీచి నిర్మాణ క్రమము వ్రాయుము?
3. Record 10M

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DEPARTMENT OF GEOGRAPHY
SYLLABUS -2018-2019
SECONDYEAR B.A. /B.Sc. SEMESTER –III
PAPER - 3 : PHYSICALGEOGRAPHY-II
CLIMATOLOGY AND OCEANOGRAPHY

Unit-I

1. Weather and Climate; Origin, composition and structure of atmosphere.
2. Insolation, Horizontal and vertical distribution of temperature

Unit-II

1. Atmospheric pressure- distribution, pressure belts, planetary winds, Monsoon and Local winds.

Unit-III

1. Humidity- precipitation forms and types and distribution.

Unit-IV

1. Configuration of oceanic floors, Temperature and Salinity of ocean.

Unit-V

1. ocean currents
2. Tides, waves of oceans oceanic resources.

Suggested Readings:

1. Barry, RG and Chorley R.J., Atmosphere, Weather and Climate, Routledge, 1998.
2. Critchfield, H., General Climatology, Prentice-Hall of India, 2002.
3. King, C. Oceanography for Geographers, Edward Arnold, London, 1975.
4. Trewartha, GT: An Introduction to Climate, Mc-Graw Hill, New York, 1981.
5. Trewartha, G.T., The Earth's Problems Climates, University of Wisconsin Press, USA.

ADDITIONAL TEXT BOOKS:

1. Ghosh .B.N.(1995) Fundamentals of Population Geography- Sterling publishers- BANGALORE.
2. Bhende A.A. and Kanitkar. T (2006) Principles of Population studies. Himalaya publishing House .HYDERABAD.

Approved

GOVERNMENT COLLEGE (AUTONOMOUS), RAJAMAHENDRAVARAM
DEPARTMENT OF GEOGRAPHY
SYLLABUS -2018-2019
SECONDYEAR B.A. /B.Sc. SEMESTER –III
PAPER - 3 : PHYSICALGEOGRAPHY-II
CLIMATOLOGY AND OCEANOGRAPHY

Time:2 ½ Hrs

Max.Marks: 50

SECTION –A

Answer any three of the following Questions

3 X 10= 30M

ఈక్రింది వానిలో ఏవైనా మూడింటికి సమాధానములు వ్రాయుము?

- 1). Describe the structure and composition of the atmosphere?
వాతావరణ నిర్మాణము మరియు సంఘటన గూర్చి వ్రాయుము?
- 2). Explain the Horizontal and vertical distribution of temperature?
క్షితిజ సమాంతర, మరియు ఊర్ధ్వ ఉష్ణోగ్రతల విస్తరణను గూర్చి వివరింపుము?
- 3). What is atmospheric pressure? Describe the world pressure belts?
వాతావరణ పీడనమనగా నేమి? ప్రపంచ పీడన మేఖలను గూర్చి వివరింపుము?
- 4). Write a detailed account of monsoon system?
ఋతుపవన వ్యవస్థ గురించి వివరంగా వ్రాయుము?
- 5). Provide an account of the different types of Rain fall and distributions?
వివిధ వర్షపాత రకాలను మరియు విస్తరణను గూర్చి వివరింపుము?
- 6). Write a geographical essay on salinity of oceans ?
మహా సముద్రాల అవణీయత గురించి భౌగోళిక వ్యాసము వ్రాయుము?
- 7). Describe the currents of the Atlantic ocean?
అట్లాంటిక్ మహా సముద్రము నందలి ప్రవాహాలను గురించి వివరించుము

SECTION - B

WRITE SHORT NOTES ON ANY THREE OF THE FOLLOWING

ఈక్రింది వానిలో ఏవైనా మూడింటికి సమాధానములు వ్రాయుము?

3 X 5 = 15 M

8). Elements of Weather and Climate?

వాయుస్థితి, శీతోష్ణస్థితి కారణాంశములు

9). Insolation

సూర్యపుటము

10). Local Winds

స్థానిక పవనాలు

11). Continental shelf

ఖండతీరపు అంచు

12). Phytoplankton

ఫైటో ప్లవకాలు

SECTION-C

Answer all the questions not exceeding two(2) lines.

5 X 1 = 5M

అన్ని ప్రశ్నలకు ఒక వాక్యమునకు మించకుండా సమాధానములు వ్రాయుము

13). Climate .

శీతోష్ణస్థితి

14). Stratosphere

స్ట్రాటోఅవరణము

15). Doldrums

ప్రశాంత మండలం

16). Tides

పోటుపాట్లు

17). Polar Winds.

ధృవ పవనాలు

Approved

GOVERNMENT COLLEGE (AUTONOMOUS), RAJAMAHENDRAVARAM
DEPARTMENT OF GEOGRAPHY
PRACTICAL SYLLABUS -2019-2020
SECOND YEAR B.A. /B.Sc. SEMESTER – III

PRACTICAL PAPER - 3: Representation of Climatic Data

1. Collection of Climatic data.
2. Representation of temperature and rainfall.
 - (i) Line and Bar Graph – 1 Exercise.
 - (ii) Distribution of temperature (isotherms) –1
 - (iii) Distribution of rainfall (isohyets) –1
 - (iv) Hythergraph -1
3. Climograph (wet and dry places) - 2 Exercise.
4. Weather map symbols and Interpretation (January & July) -2

Suggested Readings:

1. Singh, R.L., 1979. Elements of Practical Geography, Kalyani Publisher, New Delhi.
2. Gregory S. 1963. Statistical Methods and the Geography, Longman, London.
3. Khan, A.A. 1996. Text Book of Practical Geography, Concept, New Delhi,.
4. Lawrence, G.P. 1968. Cartographic Methods, Methuen, London,.
5. Monkhouse, F.J. and Wilkinson, H.R. 1994. Maps and Diagrams, Methuen, London,
6. Pal. S.K. 1998: Statistics for Geoscientist- Techniques and Applications, Concept Publication, New Delhi,.
7. Sarkar, A.K. 1997: Practical Geography-A Systematic Approach, Orient Longman, Calcutta.

REFERENCES BOOKS:

1. F.J and Wilkinson , H. R. 1968 Maps and Diagrams – Methuen -London
2. Robinson – A.H. et al (1965) Elements of cartography John, Wiley New York.
3. Singh R.L and Dutta. P.K (1968) Elements of Practical Geography, student Friends - Allahabad.

Approved

GOVERNMENT COLLEGE (AUTONOMOUS), RAJAMAHENDRAVARAM
DEPARTMENT OF GEOGRAPHY
PRACTICAL MODEL QUESTION PAPER - 2019-2020
SECOND YEAR B.A. /B.Sc. SEMISTER – III

PRACTICAL PAPER-3: REPRESENTATION OF CLIMATIC DATA

Time: 2 ½ Hrs

Max.Marks:50

ANSWER ALL THE QUESTIONS

ఈ క్రింది వాటికి సమాధానములు వ్రాయుము.

- | | |
|--|-----|
| 1. Draw a Line / Bar Graph by using the following Data | 10M |
| 2. Prepare a Pie Graph by using the following Data | 10M |
| 3. Weather Map symbols and maps interpretation | 20M |
| 4. Record | 10M |

Approved

GOVERNMENT COLLEGE (AUTONOMOUS), RAJAMAHENDRAVARAM
DEPARTMENT OF GEOGRAPHY
SYLLABUS – 2019-2020
THIRDYEAR B.A. /B.Sc. SEMESTER –V

PAPER - 5: ECONOMICGEOGRAPHY

UNIT - I

1. Agriculture: Types and Pattern of Agriculture, Green revolution.
2. Major Crops : Rice and Wheat Production –Distribution.

UNIT - II

3. Livestock: Development, distribution andproducts.
4. Fisheries: Major fishing grounds of the world, production andtrade.

UNIT - III

5. Minerals: Metallic (Iron ore,Aluminum)
6. Fuels: Coal and Petroleum, Production and distribution

UNIT - IV

7. Industry: Locational Factors, Industrial Location theory of Weber.
8. Major-Industries: Iron and Steel, Cottontextile.

UNIT - IV

9. Transport: Roadways, Railways, Water ways andAirways.
10. Trade: International trade, Major Exports andImports.

REFERENCE BOOKS:

1. Alexander. J.W. 1963 – Economic Geography, Prentice Hall- NewDelhi.
2. Leong G.C and Morgan C.C (1975) Human and economic Geography Oxford University Press London.
3. MajidHussain – 1999, Human Geography Rawat –Jaipur

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GOVERNMENT COLLEGE (AUTONOMOUS), RAJAMAHENDRAVARAM
DEPARTMENT OF GEOGRAPHY
MODEL QUESTION PAPER - 2019-2020
THIRD YEAR B.A. /B.Sc. SEMESTER – V

PAPER - 5: ECONOMIC GEOGRAPHY

Time: 2 ½ Hrs

Max.Marks: 50

SECTION –A

Answer ANY THREE of the following Questions

3 X 10 = 30M

ఈక్రింది వానిలో ఏవైనా మూడింటికి సమాధానములు వ్రాయుము?

1). Write a detailed account of various Types and Patterns of Agriculture in theWorld?

ప్రపంచము నందలి వివిధ రకాల వ్యవసాయ పద్ధతులను గురించి వ్రాయుము?

2). Write a detailed account of Production and distribution of Rice in theWorld?

ప్రపంచము నందలి వరి ఉత్పత్తి మరియు విస్తరణను గురించి వ్రాయుము?

3). Write an essay on live stock with special reference of Dairy Farming of theworld?

ప్రపంచము నందలి జంతు సంపదను వివరిస్తూ డైరీ ఫారం

గురించి ప్రత్యేకముగా వివరించుము?

4). Write an essay on Major Fishing Grounds of the world?

ప్రపంచము నందలి ప్రధాన మత్య సంపద సంగ్రహణ ప్రాంతాలను గురించి ఒక వ్యాసము వ్రాయుము?

5). Write a geographical account of the production and distribution of Coal in the world?

ప్రపంచము నందలి ఇనుప ధాతు ఉత్పత్తి మరియు విస్తరణ గూర్చి భౌగోళిక వ్యాఖ్య వ్రాయుము?

6). Provide a detailed account of Weber's industrial locationtheory?

వెబర్ యొక్క పారిశ్రామిక స్థల నిర్ణయ సిద్ధాంతమును గూర్చి విశదీకరింపుము?

7). Describe the location and distribution of cotton textile industry in the world?

ప్రపంచము నందలి నూలు వస్త్ర పరిశ్రమ యొక్క ఉనికి మరియు విస్తరణ గూర్చి వివరింపుము?

SECTION – B

WRITE SHORT NOTES ON ANY THREE OF THE FOLLOWING.

3 X 5 = 15M

ఈక్రింది వానిలో ఏవైనా మూడింటికి సమాధానములు వ్రాయుము?

8. Green revolution

హరిత విప్లవము

9. Petroleum importance

పెట్రోలియం ప్రాధాన్యత

10. Aluminum Production

అల్యూమినియం ఉత్పత్తి

11. Suez Canal

సూయజ్ కాలువ

12. International Air Ports

అంతర్జాతీయ వ్యాపారము

SECTION-C

13 Locate the following on the outline map of the world.

5x1=5M

ఈక్రింది అంశములను మీకివ్వబడిన ప్రపంచ పటమునందు గుర్తించుము

a) Black Sea - నల్ల సముద్రము

b) Lake Superior - సుపీరియర్ సరస్సు

c) Amazon River - అమెజాన్ నది

d) New Delhi - న్యూఢిల్లీ

e) Persian Gulf - పర్షియా సింధు శాఖ

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DEPARTMENT OF GEOGRAPHY
PRACTICAL SYLLABUS -2019-2020
THIRDYEAR B.A. /B.Sc. SEMESTER -V

PRACTICAL PAPER - 5: MAPS AND DIAGRAMS

Thematic Maps

Class intervals

Choropleth

Isopleth – Schematic

Choro Schematic

Dot Maps

Flow maps or Chart.

REFERENCES BOOKS:

1. F.J and Wilkinson , H. R (1968) Maps and Diogrames – Mathuen -London
2. Robinson – A.H.Etal (1965) Elements of cartography John, wileyNewyork.
3. Singh R.L and Dutt. P.K (1968) Elements of Practical Geography, student Friends - Allahabad.

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PRACTICAL MODEL QUESTION PAPER - 2019-2020
THIRD YEAR B.A. /B.Sc. SEMESTER - V

PRACTICAL PAPER-5 : MAPS AND DIAGRAMS

Time: 2 ½ Hrs

Max.Marks:50

ANSWER ALL THE QUESTIONS

1. Prepare a Choropleth Map by using the following Data 20M
2. Prepare a Isopleth Map by using the following Data 20M
3. Record 10M

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SYLLABUS – 2019-2020
THIRDYEAR B.A. /B.Sc. SEMESTER – V

PAPER - 6 : PRINCIPLES OF REMOTESENSING

UNIT-I

Basics of Remote Sensing: definition, History, Advantages -Aerial Photography and Satellite Remote Sensing.

UNIT- II

Components of Remote Sensing System :Energie Source, Energy- Atmosphere Interaction, Energy- Matter Interaction, Platforms, Sensorce, Data handling system, Data users Energy Interaction with Atmosphere and Surface Materials: Natural of Electromagnetic Radiation – Electromagnetic Radiation Spectrum Interaction of Electromagnetic Radiation with Atmosphere and with Earth Surface Materials – Spectral Signatures.

UNIT- III

Remote Sensing Platforms: Aircrafts and Satellites - Orbital Characteristics of Sun – synchronous Earth Resource Satellites and Geostationary Communication – Special purpose Satellites.

UNIT- IV

Remote Sensing Sensors:Types of Sensors: Active and Passive – Framing System (Cameras) – Scanning Systems Sensors Characteristics: Spatial Resolution, Spectral Resolution, Radiometric Resolution, Temporal Resolution. - Cameras: Single Lens, Multiple Lens, Strip and Digital – Filters

UNIT- V

Scanners: Cross – track Vs. Along – Track – Mono – Spectral Vs. Multi – Spectral Scanners

Products: Visual and Digital - Remote Sensing in India: Development and Growth – Satellites.

Basic Texts:

1. Compbell, James, B (1987) Introducton to Remote Sensing, The Guilford Press, New York.
2. Curran, P (1985) Principles of Remote Sensing, London.
3. Kang- tsng Chang (2003) Geographic Information Systems, Tata McGraw hill, New Delhi
4. Lillisand, T.M. and R.W Kifer (1997) Remote Sensing and Image Interpretation, john Wiley and Sons, NewYork.

5. Star J, and J. Estes, (1994), Geographic Information Systems: An Introduction, Prentice Hall, NewJersy.

Additional Texts:

1. Anji Reddy, M (2006) A Text Book of Remote sensing and Geographical Information System, B.S Publications,Hyderabad.
2. Clark, Keith C. (1999) Getting Started with Geographic Information Systems, Prentice Hall, NewJersey.
3. Lo Albert, C.P., and Yeung, K.W (2003) Concepts and Techniques of Geographical Information Systems, Prentice Hall of India Pvt. Ltd., NewDelhi.

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MODEL QUESTION PAPER - 2019-2020
THIRD YEAR B.A. /B.Sc. SEMESTER – V

PAPER - 6 : PRINCIPLES OF REMOTE SENSING

Time:2 ½ Hrs

Max.Marks: 50

SECTION –A

Answer any three of the following questions

ఈక్రింది వానిలో ఏవైనా మూడింటికి సమాధానములు వ్రాయుము?

1) Define What is Remote Sensing, Write History and Uses of Remote Sensing ?

దూరగ్రాహక ప్రక్రియను నిర్వచించుము? దాని చరిత్ర మరియు ఉపయోగములను వ్రాయుము?

2). Write elaborately Arial Photography and Satellite Remote Sensing?

ఆకాశచాయా గ్రహణం మరియు ఉపగ్రహ దూరగ్రాహక ప్రక్రియ గూర్చి వివరముగా వ్రాయుము?

3). Write a note on Components of Remote Sensing?

దూరగ్రాహక ప్రక్రియ యొక్క వివిధ భాగాలను గూర్చి వ్రాయుము?

4).Write a Detailed account of Atmospheric Interaction with Electromagnetic Radiation ?

వాతావరణానికి మరియు విద్యుత్ అయస్కాంత వికిరణం మధ్యగల సంబంధమును వివరంపుము

5). Classify the Platforms ? Write a detailed account of them?

ప్లాట్ ఫామ్స్ ను వర్గీకరించి వాటిని గూర్చి వివరముగా వ్రాయుము?

6). Classify the Sensors , Write a detailed account of them ?

గ్రాహకాలను వర్గీకరించి వాటిని గూర్చి వివరముగా వ్రాయుము?

7). Write a detailed account of Indian RS Satellites (IRS) ?

భారతీయ దూరగ్రాహక ప్రక్రియ ఉపగ్రహాలను గూర్చి వివరముగా వ్రాయుము?

SECTION – B

WRITE SHORT NOTES ON ANY THREE OF THE FOLLOWING.

3 X 5 = 15M

ఈక్రింది వానిలో ఏవైనా మూడింటికి సమాధానములు వ్రాయుము?

8. Spectral Signatures.

వర్ణపటముద్రలు

9. Spatial Resolutions.

స్పేషియల్ రిజల్యూషన్స్

10 Types of Filters.

ఫిల్టర్స్ రకాలు

11. Scanners and Types.

స్కానర్స్ మరియు రకాలు

12. Differences between Visual & Digital products

దృశ్య మరియు డిజిటల్ ఉత్పాదనల మధ్య వ్యత్యాసము

Answer all the questions not exceeding two(2) lines.

5 X 1 = 5M

అన్ని ప్రశ్నలకు ఒక వాక్యమునకు మించకుండా సమాధానములు వ్రాయుము

13) Electromagnetic energy

విద్యుత్ అయస్కాంత శక్తి

14) N.R.S.A.

ఎన్.ఆర్.ఎస్.ఎ

15) Atmospheric windows

వాతావరణ గవాక్షాలు

16) Black body

కృష్ణ వస్తువు

17) Geosynchronous orbit

భూస్థిరకక్ష్య

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DEPARTMENT OF GEOGRAPHY
PRACTICAL SYLLABUS -2019-2020
THIRDYEAR B.A. /B.Sc. SEMESTER -V

PRACTICAL PAPER-6: PRINCIPLES OF REMOTESENSING

1. Air Photographs and Satellite Imageries: Describing the MarginalInformation
2. Air Photo Interpretation: Using Stereoscop, Stereoscopic Vision Test, Flight line Marking, Land use Mapping, Relief and DrainageMapping.
3. Imagery Interpretation: Visual Methods – Mapping of Land use / Land Cover /Drainage.

Basic Texts:

1. Campbell, James, B (1987) Introduction to Remote Sensing, The Guilford Press, New York.
2. Clarke, Keith C.(1999) Getting Started with Geographic Information Systems, Prentice Hall, NewJersey.

Additional Texts:

1. AnjiReddy ,M(2006): A Text Book of Remote Sensing and Geographical Information Systems, B.S. Publications,Hyderabad.
2. Curran, P (1997) Principles of remote Sensing, Longman,London.
3. Lillisand, T.M. and R.W Kiefer (1997) Remote Sensing and Image Interpretation, John Wiley and Sons, NewYork.

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DEPARTMENT OF GEOGRAPHY
PRACTICAL MODEL QUESTION PAPER - 2019-2020
THIRD YEAR B.A. /B.Sc. SEMESTER - V

PRACTICAL PAPER-6 : PRINCIPLES OF REMOTE SENSING

Time :2 ½ hrs

Max Marks :50

Answer all the following Questions

- | | |
|--|-----|
| 1). Remote Sensing and Aerial photography | 20M |
| 2). Air Photo interpretation using stereoscope | 20M |
| 4). Record | 10M |

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**GOVERNMENT COLLEGE (AUTONOMOUS)
RAJAMAHENDRAVARAM**

Board of Studies Meeting 2019 – 2020

DEPARTMENT OF GEOGRAPHY

List of Examiners / Paper Setters

S.No	Name of the Lecturer / Reader	College	No. of years of Experience as Degree College Lecturer	Paper Taught
1.	K.C.S. V. Ramana	Y. N. College Narasapuram	13	ALL
2.	Ch.V.Ramana	K.G.R.L. College(A), Bhimavaram	12	ALL
3.	K. Somayya	D. N. R. College Bhimavaram	09	ALL
4.	B.N.S.V. Prasad	Y. N. College Narasapuram	10	ALL
5.	K. BhaskaraRao	S.M.B.T. College Veeravasaram	10	ALL
6.	Ch. Krishna Rao	Dr. C. S. N. College Bhimavaram	10	All
7.	J.Gangabhavani	D. N. R. College Bhimavaram	05	All
8.	K.Yuvapriya	D. N. R. College Bhimavaram	05	All

UniversityNominee

LocalNominee

Chairman Board of Studies
Department ofGeography