

SARDAR PATEL UNIVERSITY,
Vallabh Vidyanagar.
Programme & Subject : B.A. Geography (CBCS)
SEMESTER-II
Effect from June, 2018

Skill Enhancement Papers
S – 111 Man and Environmental System – II

Paper Code: UA02SGEO21 S-101 Skill Enhancement		Total Credit:3
Title of Paper : Man and Environmental System-2		
Unit	Description in Detail	Weightage (%)
1.	1.1 Meaning of Environmental Hazards 1.2 Environmental Disaster & Stress 1.4 Classification of Environmental Hazards 1.4 Environmental conservation Movements.	25%
2.	2.1 Concept of Management of Environmental Hazards 2.2 Hazards Zones & Risk Analysis 2.3 Hazard Awareness; Pre- Hazard Conditions: Warning & Precautions 2.4 Post Hazard Condition: Rescue, Assessment & Rehabilitation.	25%
3.	3.1 Atmospheric Hazards & Disaster: Causes, Effects & Management 3.2 Cyclone Cloud bluest and Floods 3.3 Drought 3.4 Green House effect & Global Warming	25%
4.	4.1 Terrestrial Hazards: Causes, Effects & Management 4.2 Earthquake, Landslide and Tsunami 4.3 Man- Induced Hazards: Causes, Effects & Management 4.4 Desertification, Forest Fire, Soil degradation & Population Explosion	25%
Readings	1. Savindra Singh, (2000): Environmental Geography. Prayag Pustak Bhavan, Allahabad. 2. Alexander, D. (1993): Natural Disasters. UCL Press Ltd, London. 3. P.C Sinha ; Introduction to Disaster managements; Anmol Publication Pvt. Ltd., New Delhi. 4. B. Narayan, Disaster Management ; Super Book Distributor, New Delhi. 5. I. Mohan, Environmental Problems in 21 st Century, Anmol Publication Pvt, Ltd. New Delhi. 6. Singh R.B. & Mishra S. (1996) Environmental Laws in India ,Issues & Responses , Rawat Publication, New Delhi.	

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Skill Enhancement Papers

S – 112 Remote sensing and Geographical Information System(GIS)

Paper Code: UA02SGEO22 S-112 Skill Enhancement		Total Credit:3
Title of Paper : Remote sensing and Geographical Information System (GIS)		
Unit	Description in Detail	Weightage (%)
1.	1.1 Historical Development of Remote Sensing 1.2 Relevance of Remote Sensing in Geography, Concepts & Basic Requirements of Satellite Remote Sensing 1.3 Platforms & Sensors, Orbital Characteristics, Whiskbroom Scanners, Push broom Scanners, & Data Products.	25%
2.	2.1 Image Processing: Visual & Digital 2.2 Significance of Secondary / in-situ data, Ground Truth Verification; Preprocessing / Rectification and Restoration. 2.3 Data Enhancement, Spectral Pattern Recognition; Microwave Sensing. SLAR Imageries; Elements of Passive. 2.4 Microwave Sensing; Remote Sensing Applications & Mapping in India: Case Studies (Landaus Planning, Forest Management, Wasteland Management etc.)	25%
3.	3.1 Concept of GIS; Maps & Spatial Information; Dynamics and Selection of Spatial Information 3.2 Concept of Spatial & Non-Spatial Data; Computer Environment for GIS (Hardware & Software Requirement) 3.3 Spatial Data: Raster-Vector Structure- Conversion & Comparison; Elements of GIS: Data Capture, Verification & Processing; Storage & Maintenance 3.4 Data Manipulation, Analysis, Overlay Analysis.	25%
4.	4.1 Integration of GIS; Remote Sensing & GPS Data Application. 4.2 Use of Satellite Imagery & other Categories of Maps for GIS (Landaus Planning, Forest Management, Wasteland Management etc)	25%
Readings	1. Campell, J. B. (2003): Introduction to Remote Sensing. 4th edition. Taylor and Francis, London. 2. Chaunial, D. D. (2004): Remote Sensing and Geographical Information System(in Hindi), ShardaPustakBhawan, Allahabad 3. Cracknell, A. and Ladson, H. (1990): Remote Sensing Year Book. Taylor and Francis, London. 4. Curran, P.I. (1985): Principles of Remote Sensing. Longman, London. 5. Deekshatulu, B.L. and Rajan, Y.S. (ed.) (1984): Remote Sensing. Indian Academy of Science, Bangalore. 6. F. and Sabins, Jr. (1986): Remote Sensing: Principles and Interpretation. W.H. Freeman, New York.	

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Paper Code: UA02GGEO21		Total Credit:3
Title of Paper : Geomorphology.		
Unit	Description in Detail	Weightage (%)
1.	1.5 Definition, Nature, Meaning and Scope of Geomorphology. 1.6 Relation of Geomorphology with Other branches of earth Science. 1.7 Approaches of the study of Geomorphology. 1.8 Importance of the Geomorphology.	25%
2.	2.1 Theory's of Origin of Earth. 2.2 Interior Structure of the earth, and Seismology. 2.3 Rocks – Origin and composition types of rocks. 2.4 Soil formation and composition of soil.	25%
3.	3.1 Earthquakes 3.2 Volcanoes 3.3 Denudation 3.4 Deposition	25%
4.	4.1 Concept of Cycle of Erosion 4.2 Fluvial and Glacial landforms 4.3 Aeolian landforms 4.4 Marine and Karst landforms.	25%
Readings	1. Bloom A. L., 2003: <i>Geomorphology: A Systematic Analysis of Late Cenozoic Landforms</i> , Prentice-Hall of India, New Delhi. 2. Strahler A. N. Strahler A. H. 'Modern Physical Geography' John Wiley & sons 1992. 3. Christopherson, Robert W., (2011), <i>Geosystems: An Introduction to Physical Geography</i> , 8 Ed., Macmillan Publishing Company 4. Kale V. S. and Gupta A., 2001: <i>Introduction to Geomorphology</i> , Orient Longman, Hyderabad. 5. Knighton A. D., 1984: <i>Fluvial Forms and Processes</i> , Edward Arnold Publishers, London. 6. Richards K. S., 1982: <i>Rivers: Form and Processes in Alluvial Channels</i> , Methuen, London. 7. Selby, M.J., (2005), <i>Earth's Changing Surface</i> , Indian Edition, OUP 8. Skinner, Brian J. and Stephen C. Porter (2000), <i>The Dynamic Earth: An Introduction to physical Geology</i> , 4th Edition, John Wiley and Sons 9. Thornbury W. D., 1968: <i>Principles of Geomorphology</i> , Wiley. 10. Gautam, A (2010): <i>Bhautik Bhugol</i> , Rastogi Publications, Meerut 11. Mahendra Shah & K. N. Jasani "Physical Geography" Uni. Granthnirman Board, Ahmedabad (Gujarati) 12. Singh, S (2009): <i>Bhautik Bhugol ka Swarup</i> , Prayag Pustak, Allahabad	

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Paper Code: UA02GGEO22		Total Credit:3
Title of Paper : Geography of Word		
Unit	Description in Detail	Weightage (%)
1.	Asia: Physiographic, Climate, Soil, Natural Vegetation, Agriculture; Minerals, Population & Industrial Region; Important Countries- Japan & Bhutan.	25%
2.	Africa: Physiographic, Climate, Soil, Natural Vegetation, Agriculture; Minerals, Population & Industrial Region; Important Countries- Egypt & Madagascar.	25%
3.	North & South America: Physiographic, Climate, Soil, Natural Vegetation, Agriculture; Minerals, Population & Industrial Region; Important Countries – Canada & Chile.	25%
4.	Europe, Oceania & Antarctica: Physiographic, Climate, Soil, Natural Vegetation, Agriculture; Minerals, Population & Industrial Region; Important Countries- France & Australia.	25%
Readings	<ol style="list-style-type: none"> 1. Percy G.E. & Field RH, World Political Geography Thomas Y.C. Comp., New York 2. Fenneman : Physiography of Western US., McGraw-Hill Book Company, Inc. New York 3. Alexander, John, W.: Economic Geography, Prentice Hall of India, New Delhi, 1988. 4. Chatterjee, S.P.: Economic Geography of India. Allied Book Agency, Calcutta, 1984. 5. Eckarsley, R (ed.): Markets, the State and Environment. McMillan, London, 1995. 6. Estall, R.C. and RC. Buchanan: Industrial Activity and Economic Geography. 7. Hutchinson University Library, London, 1963. 8. Hamilton, I. (ed.): Resources and Industries. Oxford University Press, New York, 1992. 9. Husain Majid (2004) World Geography 10. Claval P. (2002) An Introduction to Region Geography 11. Tirtha R (2001) Geography of Asia 12. James P. American Geography: Problems & Prospects 13. Dixit K.S. Introduction to Geography (2008) 14. Rao B.P. Geographical Analysis of Asia (2008) 15. Srivastava H., Regional Geography (2008) 16. Satpathi D.P., China KaBhogolikSwaroop (2006) 17. Chaurasia B.P., Regional Pattarn of Japan (2007) 18. Singh Jagdish, Three Southrn Continents (2008) 19. Geography – Book 6; R.K. Jain, ICSE, RatnaSagar Publication. 20. Panorama: A Textbook of geography, class VII, ICSE, United Publishing House, New Delhi 	