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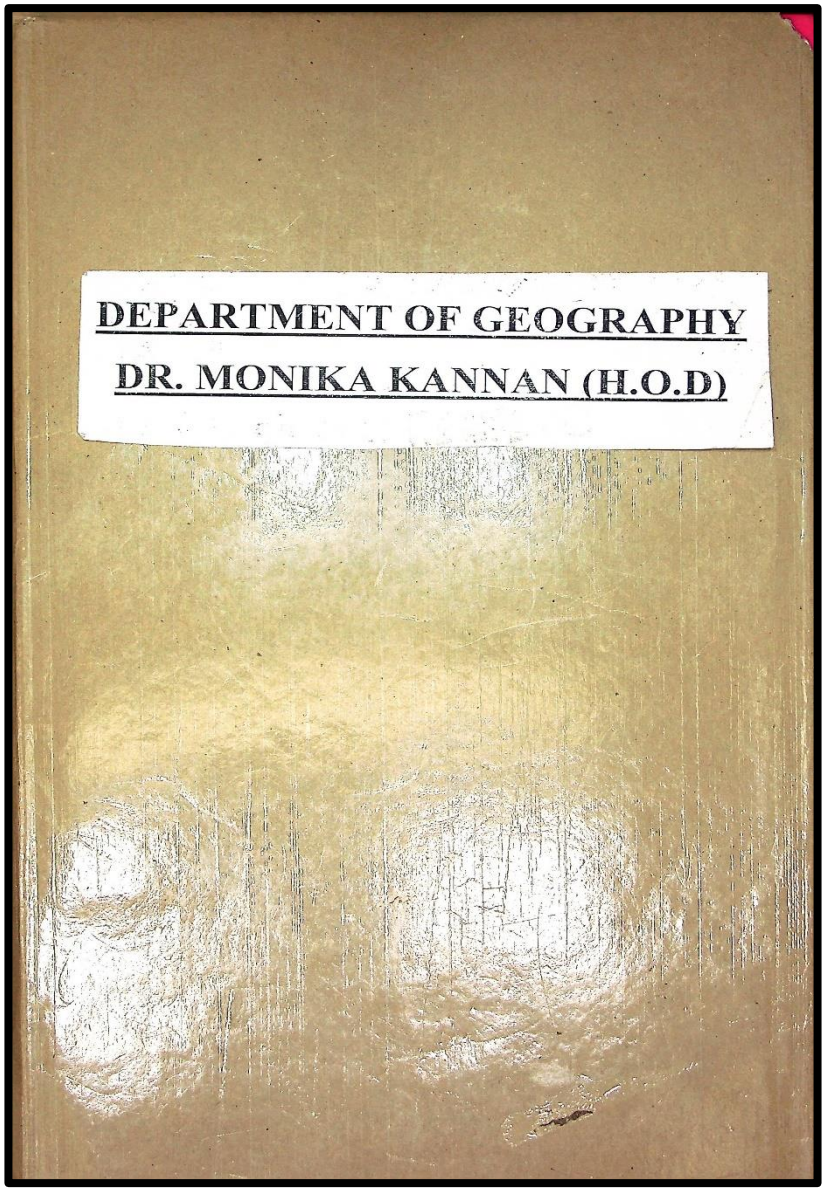

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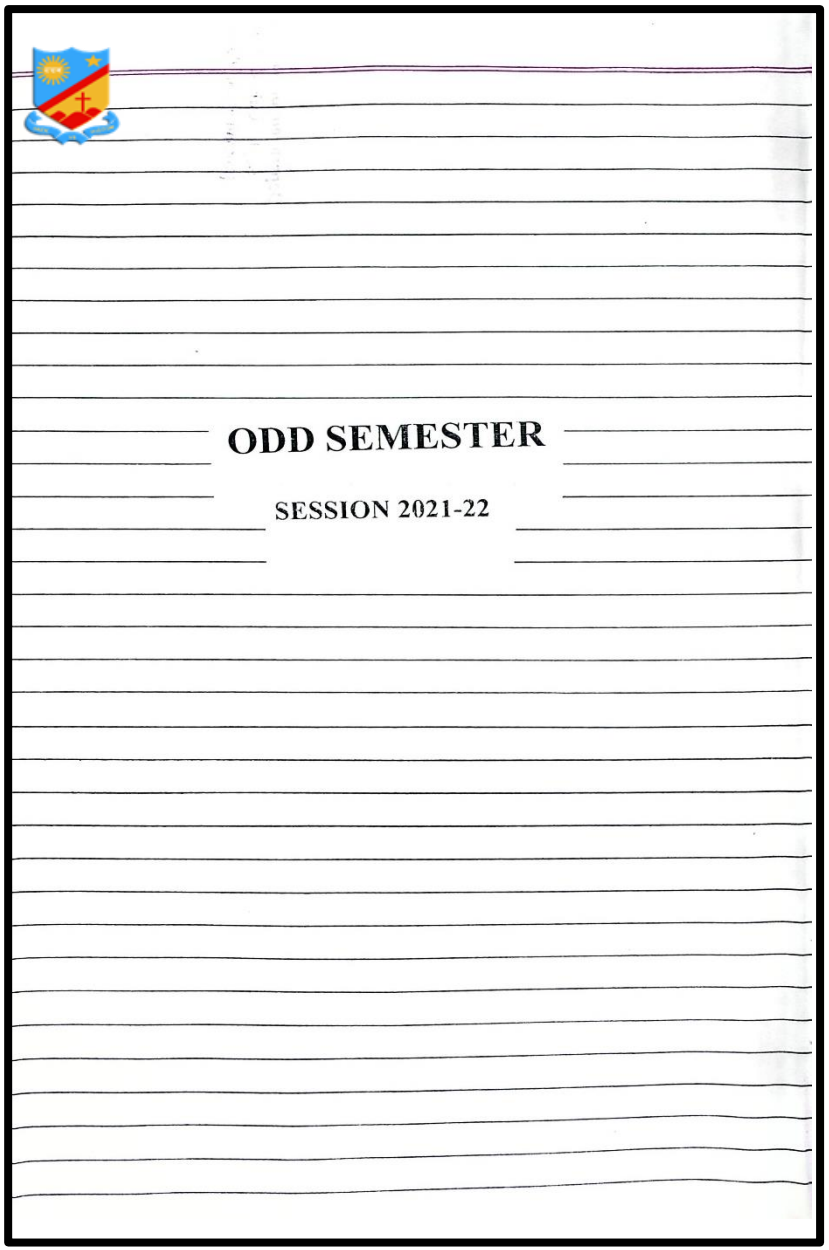
ODD SEMESTER
SESSION 2021-22

SOPHIA GIRL'S COLLEGE, AJMER (*AUTONOMOUS*)

B.A SEMESTER I

GEOGRAPHY OF RAJASTHAN (PAPER II) (GEO-102)

Max. Marks : 75 (50Ext; 25 Int) Min. Marks: 30(20 Ext;10 Int) Credit: 03

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM I AUG	**UNIT I** Physiography; Climate: Factors affecting, Koppen's Climatic classification;	Water divide of India, Windward and Leeward.	PPT, PDF's, Flipped Classrooms, Maps, Quiz.	Classify and understand the physiographic divisions of Rajasthan.	*Knowledge Based* Elaborate the Physiographical features of Rajasthan. Write a note on desertification in Rajasthan. *Understanding Based* Discuss the factors affecting population density in Rajasthan. *Higher Order*	Knowledge--60 Understanding-30 Higher Order-
	Drainage: Rivers and Lakes; Soil: Types and distribution; Vegetation: Factors affecting, conservation;	Badlands, Sand dunes.	Maps, Quiz, Diagrams.			
	Desertification.	Climate change, Alkaline and saline soils.	Maps, Flow Charts.			
SEPT.	**UNIT II** Population: Factors affecting, Growth, Density, Distribution	Sex ratios, Gender issues.	Diagrams, Tables and flow charts.	Enumerate the qualitative and quantitative aspects of population and determine the agricultural		
	Tribes: Meena, Bhill, Garasia and Saharia;	Social structure of tribes.	Diagrams, PPT's.			
	Agriculture: Major crops (Bajra,	Dryland Farming,	Maps,			

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	Wheat, Gram, Jowar, Maize, Barley, Cash crops: Sugar cane, Cotton, Oil seeds), Dryland Farming	Water Logging.	Diagrams, Flip Learning.	regions of Rajasthan.	*Thinking Skills Based* Justify the present distribution of power resources with the help of suitable map.	10
OCT.-NOV.	**UNIT III** Mineral Resources: Metallic Minerals: Iron-ore, Zinc, Manganese, Lead, Silver, Copper, and Tungsten; Non-Metallic: Gypsum, Mica, Manganese, Limestone, Marble;	Illegal mining.	Diagrams, Models, demonstration through Globe, Blended Learning	List the major metallic, non-metallic resources and correlate with industrial development of the state.		
	Power Resources: Non-Renewable (Coal, Petroleum, Natural gas, Hydroelectricity, Atomic); Renewable (Wind, solar, Biogas);	Coke, charcoal.	PPT, Demonstration, PDF's			

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B.A SEMESTER V

REGIONAL GEOGRAPHY OF THE WORLD: (ASIA, EUROPE AND AUSTRALIA)

(PAPER I) (GEO-502)

Max. Marks : 75 (50Ext; 25 Int) **Min. Marks: 30(20 Ext;10 Int)**

Credit: 03 **Duration: $2^{1/2}$ hrs**

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Distribution
SEM V AUG.	UNIT I Asia: Major Physiographic Divisions; Drainage: Yangtze, Hwang Ho, Mekong, Brahmaputra River Systems; Climate; Natural Vegetation; Agriculture Belts; Minerals: Iron, Copper, Zinc, Bauxite, Tin, Uranium, Limestone,	Holistic Understanding of the patterns of Physical and cultural elements of Asia	PPT, Chart, Maps, Visual 3-D Models	Gain geographical knowledge of Asia and by identifying the physiographical elemen	*Knowledge Based* 1. What is Solar System? 2. Illustrate the different layers of Earth's Interior? *Understanding Based* 1. Compare the Continental Drift Theory and the	Knowledge--55

	Manganese; Power Resources: Coal, Petroleum and Natural Gas; Industries: Iron and Steel, Engineering, , Sugar, Textiles; Spatial distribution of Population.			ts and trace the econo mic develo pment. Gain geogra phical knowle dge of Europe and by identify ing the physio graphic al elemen ts and trace the econo mic develo pment. Gain geogra phical	concept of Plate Tectonics? 2. Classify the different landforms formed by the action of river? *Higher Order Thinking Skills Based* 1. Justify the present distribution of world continents and oceans on the basis of Hary Hess's Plate Tectonics Theory? 2. Critically evaluate the concepts of Sea Floor spreading?	Understanding- 30 Higher Order-15
			Match the following, Quiz, Demonstration			
			Maps, Flow Charts			

				knowledge of Australia and by identifying the physiographical elements and trace the economic development.		
SEPT.	Europe: Major Physiographic Divisions; Drainage: Rhine, Volga, Danube, Thames River Systems; Climate; Natural Vegetation; Agriculture Belts; Minerals: Iron, Copper, Zinc, Bauxite, Uranium, Limestone, Manganese; Power Resources: Coal, Petroleum	Basic Knowledge of Landscape and socio-economic scenario of Europe	Diagrams, Models, demonstration through Maps			

			Diagrams, Models, demonstration through PPT's and PDF's		
			Maps, Diagrams, Models, Demonstration		
OCT.-NOV	UNIT III Australia: Major Physiographic Divisions; Drainage: Murray & Darling River Systems; Climate; Natural Vegetation; Agriculture; Minerals: Iron, Copper, Zinc, Bauxite, Uranium, Gold; Power Resources: Coal, Petroleum and Natural Gas; Industries: Iron and Steel, Dairy, Tourism; Spatial distribution of Population.	Holistic Understanding of the patterns of Physical and cultural elements of Brazil	Demonstration through PPT's and PDF's		
			PPT, Demonstration		
			PPT, Case Studies, Flipped Classroom		

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B.A SEMESTER V

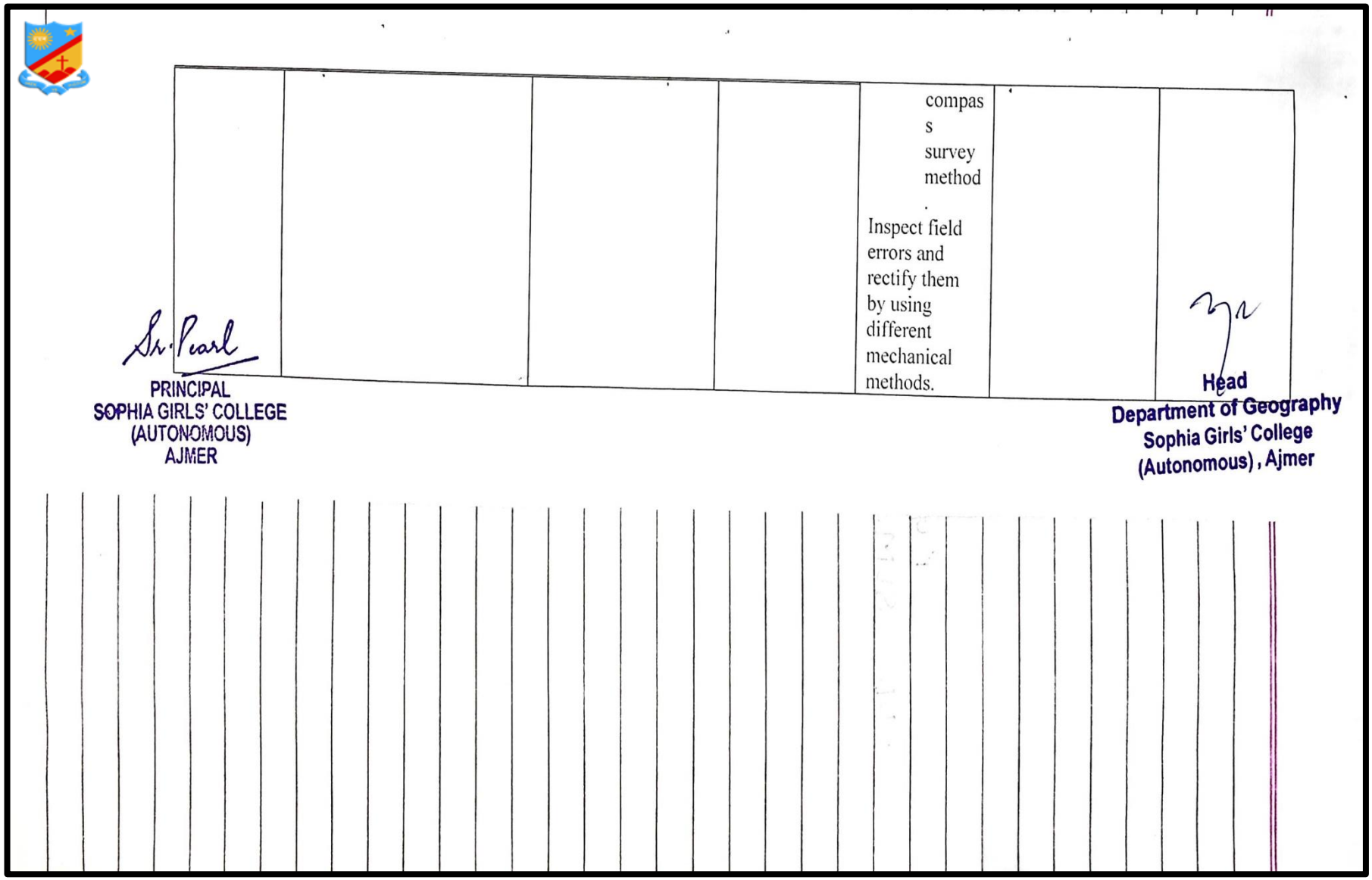
PRACTICAL - (PAPER III) (GEO-503)

Max. Marks: 50(40Ext; 10 Int) **Min Marks: 20(16 Ext;4 Int)**

Credits: 02 **Duration: 5 hrs**

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM V SEPT.	**FILED SURVEY: REPORT WRITING BASED ON FIELD VISITS OF AN INDUSTRIAL CENTRE, HERITAGE SITE LIKE FORTS, IRRIGATION PROJECT, NATIONAL PARK etc** Technique of Field work conduction: Types of data, Primary data collection: Sampling, Preparation of a questionnaire. Significance of field work in Geographical studies.	Understanding Socio-Economic Scenario of Field. Basic Knowledge of survey and its Importance.	Report Writing	Learn to collect primary and secondary data from various sources. Appraise the importance of ecological, historical or industrial hotspots for	*Knowledge Based* Practical File Work *Understanding Based* Lab exercises Draw a Plain Scale on R.F 1:50,000 *Higher Order Thinking Skills Based* Interpret and develop a Profile for the given region?	Knowledge--30 Understanding-50 Higher Order-20

SEPT.	Data Analysis and Report writing with the help of suitable diagrams.		Demonstration with Maps and Data Tabulations	the purpose of regional growth.	Viva Voce	
OCT.-NOV.	The students are required to give a project presentation with report submission on assigned problem involving field investigations.		Maps and Diagrams			
				Learning Outcomes	**Questions**	**Marks Weightage (%)**
				• Apply their previous knowledge to create the field plan through plane table and prismat	*Knowledge Based* Practical File Work *Understanding Based* Lab exercises Draw a Plain Scale on R.F 1:50,000 *Higher Order Thinking Skills Based* Interpret and develop a Profile for the given region? Viva Voce	Knowledge--30 Understanding-50 Higher Order-20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B.A SEMESTER III

GEOGRAPHY OF INDIA-I (PAPER II) (GEO-302)

Max. Marks : 75 (50Ext; 25 Int) **Min. Marks: 30(20 Ext;10 Int)**

Credit: 03 **Duration: $2^{1/2}$ hrs**

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Distribution
SEM I JULY	UNIT I India in the context of Southeast and South Asia;	Geography of India:Physiography , Geology	PPT, Chart, Maps, Visual 3-D Models	Identify physiographic regions of India and schematize the river systems of India.	*Knowledge Based* *Understanding Based* *Higher Order Thinking Skills Based*	Knowledge--55 Understanding- 30
	India: a land of diversities; Unity within diversities;		Match the following, Quiz, Demonstration			
	Major terrain elements of India and their role in shaping physical landscape of India; Drainage systems.		Maps, Flow Charts			
AUGUST	UNIT II Regional and seasonal variations of climate - The	Climate of India and associated phenomena	Diagrams, Models, demonstration through Globe	Describe factors affecting Indian		

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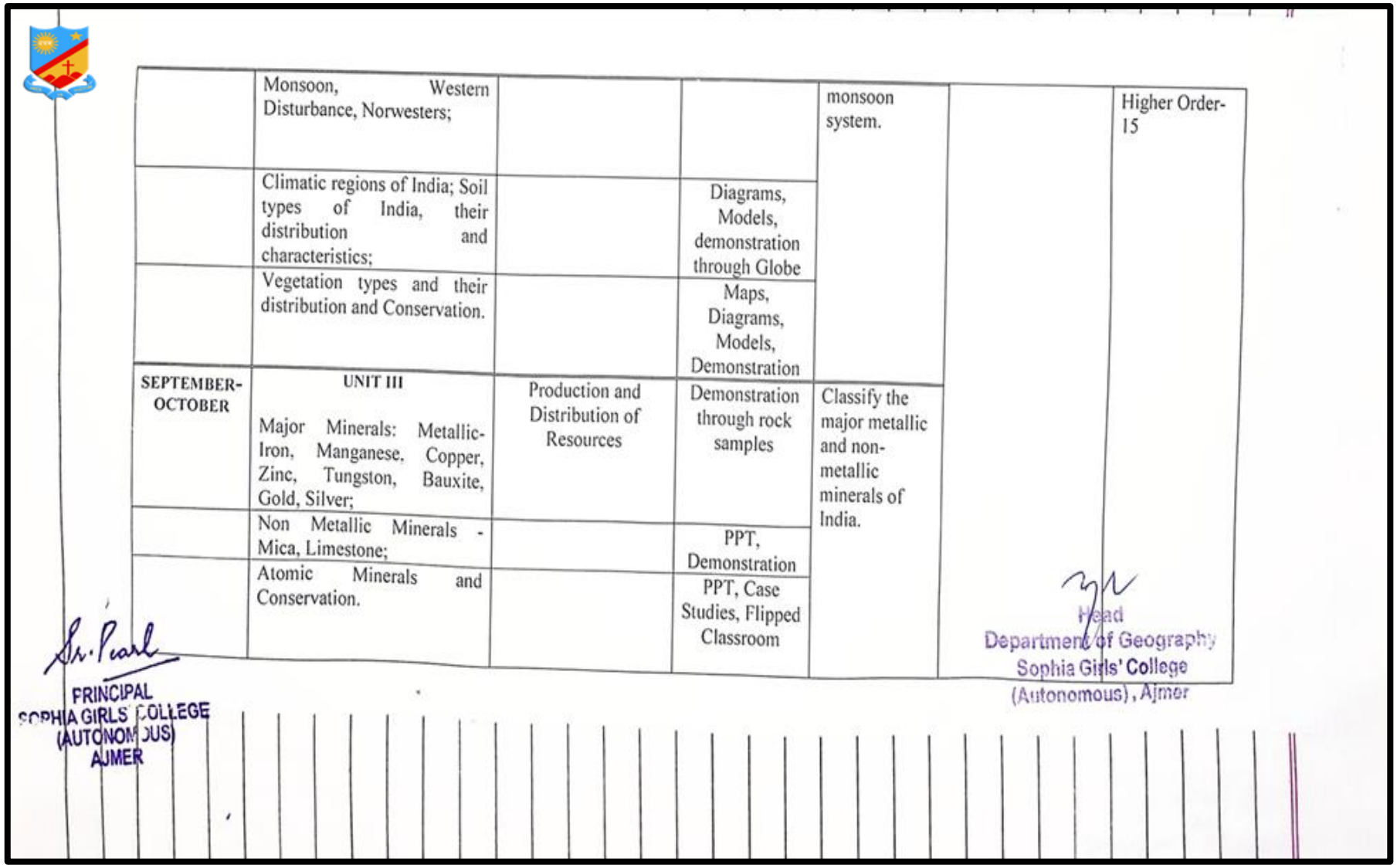

	Monsoon, Western Disturbance, Norwesters;			monsoon system.		Higher Order- 15
	Climatic regions of India; Soil types of India, their distribution and characteristics;		Diagrams, Models, demonstration through Globe			
	Vegetation types and their distribution and Conservation.		Maps, Diagrams, Models, Demonstration			
SEPTEMBER-OCTOBER	UNIT III Major Minerals: Metallic- Iron, Manganese, Copper, Zinc, Tungston, Bauxite, Gold, Silver;	Production and Distribution of Resources	Demonstration through rock samples	Classify the major metallic and non-metallic minerals of India.		
	Non Metallic Minerals - Mica, Limestone;		PPT, Demonstration			
	Atomic Minerals and Conservation.		PPT, Case Studies, Flipped Classroom			

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			Demonstration		continents and oceans on the basis of Hary Hess's Plate Tectonics Theory? Critically Evaluate the concepts of Sea Floor spreading?	30
JAN. TO FEB.	**UNIT III** Formation and Characteristics: Fluvial, Glacial, Aeoline (Arid and Semi-Arid),	Attrition, Ablation, Abrasion, plucking.	Demonstration through rock samples	Illustrate various landforms and classify their process of evolution and distribution.		
	Karst, Coastal landforms	Attrition, Ablation, Abrasion, plucking	PPT, Demonstration			
	Slopes; Forms, processes and evolution; Davis, Rejuvenation,	Channel, slope profile.	PPT, Case Studies, Flipped Classroom			

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M. A/M.Sc GEOGRAPHY (Final) SEMESTER III

AGRICULTURAL GEOGRAPHY (a) (GEOM-301)

Max Marks: 100(70Ext; 30 Int) Min. Marks: 40(28 Ext;12 Int) Credits: 06 Duration: 03 hrs

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM III JULY	UNIT I Nature, Scope and Development; Approaches to the study of Agricultural Geography: Commodity, Systematic, Regional and Ecological;	Approaches to the study of Agricultural Geography	PPT, Chart, Maps, Visual 3- D Models	Trace the development of agricultural geography as a subject and analyze the sources of agricultural data.	*Knowledge Based* Summarize the development of agricultural geography. *Understanding Based* Examine the determinants of agricultural land use. *Higher Order Thinking Skills Based* Discuss the problems and	Knowledge-- 30 Understanding- 40 Higher Order-
	Origin and Dispersal; Concepts: Cropping Pattern, Crop Concentration,	. Origin and dispersal of agriculture	Match the following, Quiz,			
	Crop Productivity, Crop Diversification, Crop Efficiency.	agricultural productivity.	Maps, Flow Charts			
AUGUST	UNIT II Theories of Crop Combination Regions: Weaver, Doi and Rafiullah;	Agricultural regionalisation	Diagrams, Models, demonstration through Globe	Distinguish agricultural concepts and theories for the classification of agricultural regions.		
	Present relevance of Von Thunen's agricultural model;	Locational Rent	Diagrams, Models,			
	Whittlesey's classification of agricultural regions.	topography and climate.	Maps, Diagrams, Models,			

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SEPTEMBER-OCTOBER	UNIT III Green Revolution and Regional Disparity;	Land productivity.	Diagrams, Models,	Examine the contemporary issues and discuss the agricultural policies of India.	solutions of contemporary Issues in Agriculture.	30
	Agro-climatic Regions of India;	Regional planning and management.	PPT, Demonstration			
	Contemporary Issues: Food Security, Sustainable Agriculture, Dryland Farming, Organic Farming.	Environmental concerns.	PPT, Case Studies, Flipped Classroom			

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M. A/M.Sc GEOGRAPHY (Final) SEMESTER III

URBAN GEOGRAPHY (a) GEOM-303

Max Marks: 100(70Ext; 30 Int) Min. Marks: 40(28 Ext;12 Int) Credits: 06 Duration: 03 hrs

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM III JULY	**UNIT I** Nature, scope and development of urban geography	Development of urban geography.	PPT, Chart, Maps, Visual 3-D Models	Understand the nature, scope and evolution of urban geography as a subject.	*Knowledge Based* Paraphrase the concepts of urban geography.	Knowledge--30
	Origin and growth of urban centres. Trends of urbanization	Urbanization	Match the following, Quiz.		*Understanding Based* Evaluate the Central Place Theory.	
	Views of Mumford and Griffith Taylor: Conurbation and Megalopolis.	Urban growth centres.	Maps, Flow Charts			
AUG UST	**UNIT II** Christaller's Central Place Theory	Understanding of urban landscape.	Maps, Flow Charts	Discover and summarize various theories of development of urban systems.	*Higher Order Thinking Skills Based*	Understanding-40
	Primate city: Rank-size rule: Urban land use Models	Market & service centres.	PPT, Chart, Maps, Visual 3-D Models			Higher Order-30
	Burgess, Harris-Ullman and Hoyt.	Land use classification.	Maps, Diagrams,			

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			Models.		Evaluate the principles of urban planning.	
SEPTEMBER-OCTOBER	**UNIT III** Centripetal and Centrifugal forces of Urban Growth;	forces of Urban Growth	Quiz, PPT, Flipped Classroom	Elaborate the functional classification of cities and interpret sustainable urban planning and development.		
	Functional classification of cities:	Functional classification of cities.	PPT, Demonstration			
	Rural Urban Fringe: Concept, Urban Problems and solutions; Concept of Smart City.	Rural-urban fringe, Umland	PPT, Case Studies.			

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B.A SEMESTER IV

ECONOMIC GEOGRAPHY-II (PAPER I) (GEO-401)

Max. Marks:75 (50Ext; 25 Int) **Min. Marks: 30(20 Ext;10 Int)**

Credit: 03 **Duration: $2^{1/2}$ hrs**

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Distribution
SEM II DEC.	**UNIT I** Minerals: Ferrous and Non-Ferrous and their world distribution (Iron ore, Manganese, Aluminium, Bauxite, Copper, Mica and Gold) (in major producing countries);		PPT, Chart, Maps, Visual 3-D Models	Categorize ferrous and non-ferrous minerals and identify their distribution on a world map.	*Knowledge Based* *Understanding Based* *Higher Order Thinking Skills Based*	Knowledge--55 Understanding-30 Higher Order-15
	Power Resources Production and utilization of conventional-Coal, Petroleum, Natural gas and atomic energy;		Match the following, Quiz, Demonstration			
	Non-Conventional- Solar, tidal, wind, biomass, geothermal and hydroelectricity.		Maps, Flow Charts			
JAN.	**UNIT II** Industries: Factors affecting localization and their classification;		Diagrams, Models, demonstration through Globe	Relate factors affecting localization of industries and discuss the major industries of the world.		
	Major industries of the world- Iron and steel, textile-cotton and Woollen,		Diagrams, Models, demonstration through Globe			

	chemicals, cement, paper, ship buildings.		Maps, Diagrams, Models, Demonstration			
FEB. - MAR.	UNIT III Trade and Transport: Geographical factors in their development, Major water, land and air transport;		Demonstration through rock samples	Identify the influence of geographical factors in the development of trade and transport.		
	Major importing and exporting countries;		PPT, Demonstration			
	Major Trade organizations: EU, EFTA, WTO, ASEAN, NAFTA, OPEC-their objectives and major characteristics.		PPT, Case Studies, Flipped Classroom			

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B.A SEMESTER VI

GEOGRAPHICAL THOUGHT- (PAPER I) (GEO-601)

Max. Marks:75 (50Ext; 25 Int) **Min. Marks: 30(20 Ext;10 Int)**

Credit: 03 **Duration: $2^{1/2}$ hrs**

SEM/ Month	UNIT/TOPIC	Concepts/ facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Distribution
SEM II DEC.	**UNIT I** The nature and scope of geography;		PPT, Chart, Maps, Visual 3-D Models	Know and understand geography of Vedic Age. Trace the contribution of Greek, Roman, Arab, French, German, British and American Geographers. Compare Dualism in Geography.	*Knowledge Based* Illustrate the different School of thought *Understanding Based* *Higher Order Thinking Skills Based*	Knowledge--55 Understanding-30 Higher Order-15
	Geography of Vedic and Puranic Age: Dwipa, Ocean, River and Mountain systems; Development of modern geography in India.		Match the following, Quiz, Demonstration			
	Ancient classical Geography-Contribution of Greeks and Romans.		Maps, Flow Charts			
JAN.	**UNIT II** Dark Age; Contribution of Arab Geographers: Ibn-Batuta, Al-Biruni, Al-Masudi, Ibn-Khaldun and Al-Idrisi.		Diagrams, Models, demonstration through Globe			
	German school of Geography: Contribution of Humboldt, Ritter and Ratzel; French School of Geography: Contribution of Blache and Brunhes;		Diagrams, Models, demonstration through Globe			
	British and American school of Geography: Contribution of		Maps, Diagrams,			

	Mackinder, Herbertson, Miss E. Semple, Huntington and Davis.		Models, Demonstration			
FEB.-MAR.	UNIT III Dualism in Geography: Determinism and Possibilism, Physical and Human, Systematic and Regional;		Demonstration through rock samples			
	Major concepts in Geography: Neo-Determinism, Terrestrial unity, Areal differentiation;		PPT, Demonstration			
	Remote Sensing and GIS- Use and Importance.		PPT, Case Studies, Flipped Classroom			

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M. A/M.Sc GEOGRAPHY
SEMESTER II
CLIMATOLOGY AND OCEANOGRAPHY(GEOM-201)

Max Marks: 100(70Ext; 30 Int) Min. Marks: 40(28 Ext; 12 Int)
Credit: 06 Duration: 03 hrs

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM II APRIL	**UNIT I** Nature and Scope of Climatology; Structure of the atmosphere;	Concept of climate and weather.	PPT, Flow Charts, Maps,	Distinguish the various climatic phenomenon and explain their global to regional distribution.	*Knowledge Based* Describe the structure and composition of the atmosphere. *Understanding Based* Compare the tropical and temperate cyclones.	Knowledge --40 Understand ing-30 Higher Order-30
	Insolation; Vertical and Horizontal distribution of temperature;	Aphelion and perihelion, revolution chart.	Demonstration by models, Weather Reports			
	Atmospheric pressure; Winds: Planetary, Periodic and Local winds.	Land and water distribution, rotation and revolution.	Maps, Flow Charts, PPT			
MAY	**UNIT II** Atmospheric moisture: Absolute and Relative Humidity; Types of Clouds and Precipitation;	Composition of the earth, layers of atmosphere.	Diagrams, Models, demonstration through Globe	Classify climatic regions of the world and observe dynamics of cyclones.		
	Air Masses and Fronts: Concept, Classification and properties.Tropical and Temperate cyclones;	Global wind circulation.	Diagrams, Models, demonstration through Globe			
	Climatic classification of Koppen and Thornthwaite;	Insolation, air masses,	Maps, Diagrams,			

		temperature and pressure.	Models, demonstration through Globe		*Higher Order Thinking Skills Based* Evaluate the theories depicting presence of coral reefs.	
JUNE **To** **JULY**	**UNIT III** Nature and scope of Oceanography; Major features of ocean basins;	Hypsometric curve,	Globe, Diagrams, Map, PPT.	Sketch the major features of ocean basins and critically evaluate the distribution of temperature and salinity in oceans.		
	Ocean Temperature andDistribution; Salinity; currents; Tides: Types and Theories (Progressive Wave Theory and Newton Equilibrium Theory);	Ocean bottom relief, gravitation and buoyancy.	PPT, Demonstration, Diagram			
	Coral reefs: Types and Theories (Darwin, Daly and Murray)	Marine organisms, Ocean bottom relief.	PPT, Flipped Classroom			

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SEMESTER IV

QUANTITATIVE TECHNIQUES IN GEOGRAPHY (a) (GEOM-403)

Max Marks: 100(70Ext; 30 Int) **Min. Marks: 40(28 Ext;12 Int)**

Credits: 06 **Duration: 03 hrs**

COURSE PLAN

SEM/ Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage (%)
SEM IV MARCH	**UNIT I** Statistics – Meaning and Objective; Sampling techniques;	Data understanding and analysis.	PPT, Chart, Maps,	Understand and estimate the importance of quantitative techniques.	*Knowledge Based* Understand and estimate the importance of quantitative techniques.	
	Central Tendencies – Mean, Median, Mode.	Central Tendencies	Diagram,PPT, Demonstration			
	Measures of Dispersion – Range, Quartile deviation, Standard deviation; Its uses and computation.	Understanding variability.	Maps, Flow Charts, Demonstration		*Understanding Based* Differentiate between scales of measurement.	Knowledge--30
APRIL	**UNIT II** Types of Statistics – Parametric & Non-Parametric, descriptive and inferential statistics;	Parametric & Non-Parametric	Diagrams, Flow Chart,Models	Differentiate between parametric and non- parametric inferences.		Understanding-30
	scales of measurement: Nominal, Ordinal, Interval Ratio:	scales of measurement	Diagrams, Group Diagram			Higher Order-40
	Correlation: Meaning, rank, Spearman; Regression Analysis.	Understanding of Correlation	Maps, Diagrams, Models, Flow Chart		*Higher Order Thinking Skills Based* Formulate hypothesis and	
MAY-	**UNIT III**	Understanding of	Demonstration	Formulate		

JUNE	Hypothesis testing, Level of significance;	statistical methods.	through Data	hypothesis and measure the level of significance.	measure the level of significance.	
	Chi-square test: Meaning & Computation; t-test; z-test;	Understanding of statistical methods.	Demonstration through Data			
	Analysis of Variance (ANOVA);	Understanding of statistical methods.	Data Analysis			

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