

Syllabus & Scheme of Examination for

GEOGRAPHY

2017-18

PAPER	PAPER CODE	PAPER TITLE	TEACHING in Hours		CREDITS	TOTAL MARKS
			Lect. T	P		
1	GE T 101	GEOGRAPHY OF INDIA	4.5		4.5	50+20=70
2	GEP 101	CARTOGRAPHIC TECHNIQUES 1		4	2	30
3	GE T 102	GEOGRAPHY OF HARYANA	4.5		4.5	50+20=70
4	GEP 102	CARTOGRAPHIC TECHNIQUES 2		4	2	30
5	GE T 201	GEOMORPHOLOGY	4.5		4.5	50+20=70
6	GEP 201	TOPOGRAPHICAL SHEETS AND WEATHER MAPS		4	2	30
7	GET 202	CLIMATOLOGY AND OCEANOGRAPHY	4.5		4.5	50+20=70
8	GEP 202	MAP PROJECTION		4	2	30
9	GET 301	POPULATION GEOGRAPHY	4.5		4.5	50+20=70
10	GEP 301	STATISTICAL TECHNIQUES AND SURVEYING		4	2	30
11	GET 302	ENVIRONMENT GEOGRAPHY	4.5		4.5	50+20=70
12	GEP 302	COMPUTER APPLICATION IN GEOGRAPHY AND FIELD REPORT		4	2	30
Total Credits			27	24	39	600

Note: There will be 9 questions in all. Question No. 1 will be compulsory and will be based on entire syllabus. A total of 5 short questions should be framed of such type that the answer can be explained in maximum four or five lines. Alternatively, multiple choice questions can also be framed. Students will have to attempt out of four questions selecting at least one question from each unit. All questions carry equal marks. Credit will be given to neat and clean maps and diagrams and students can use a stencil for making maps and a calculator as per requirement. Pass percentage is 40% and it is necessary to pass in theory and practical papers separately. Students who reappear in theory paper need not to give practical exam of that semester.

K. Lalit
5/3/19

S. Sangwan
5.3.19.

(State University Established under the Legislative Act No. 31/2006)

Scheme of Examinations of BA I, II, III in the subject of Geography

(w.e.f. session 2017-18)

Semester 1st

Paper code	Title of paper	Allocation of periods	BA- I Maximum Marks			Credits
			Internal marks	External Marks	Total Marks	
GET .101	Geography of India	6	20	50	70	4.5
GEP 101	Cartographic Techniques 1	6	—	30	30	2

Semester 2nd

Paper code	Title of paper	Allocation of periods	BA- I Maximum Marks			Credits
			Internal marks	External Marks	Total Marks	
GET .102	Geography of Haryana	6	20	50	70	4.5
GEP .102	Cartographic Techniques 2	6	—	30	30	2

Semester 3rd

Paper code	Title of paper	Allocation of periods	BA- II Maximum Marks			Credits
			Internal marks	External Marks	Total Marks	
GET 201	Geomorphology	6	20	50	70	4.5
GEP 201	Topographical Sheets and Weather Maps	6	—	30	30	2

Semester 4th

Paper code	Title of paper	Allocation of periods	BA- II Maximum Marks			Credits
			Internal marks	External Marks	Total Marks	
GET 202	Climatology and Oceanography	6	20	50	70	4.5
GEP 202	Map Projection	6	—	30	30	2

Semester 5th

Paper code	Title of paper	Allocation of periods	BA- III Maximum Marks			Credits
			Internal marks	External Marks	Total Marks	

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	Geography					4.5
GEP 301	Statistical Techniques	6	--	30	30	2

Semester 6th

Paper code	Title of paper	Allocation of periods	BA- III Maximum Marks			Credits
			Internal marks	External Marks	Total Marks	
GET 302	Environment Geography	6	20	50	70	4.5
GEP 302	Computer Application in Geography and Field Report	6	--	30	30	2

Theory External= 50

Internal assessment: Theory & Practicals

Seminar.....8

Class test..... 7

Attendance.....5

Total = 20

Class teaching 6 periods of 45 minutes for theory. = 4.5 credits

Six periods of 45 minutes, or 4 hours for Practical..... = 2 credits

Total = 6.5 credits for each semester,

39 credits for all 6 semesters

Theory Sections..... 60 – 80 students

Practical groups..... 20 students in each group in.... B.A.1 & 15 students in each group in B.A.II ,B.A.III

Applicable from July 2017

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GEOGRAPHY OF INDIA

Course code GET 101

Total Marks: 50

Time: 3 hours

Course Objective: To make the students understand about physiographic regions, climatic, socio-cultural and economic condition of India.

Unit 1

1. Physiographic regions of India.
2. Climate of India, Factors influencing climate of India. Monsoon.
3. Soils Type of India, Major Soil groups their distribution and need for conservation.

Unit 2

4. Distribution of Metallic and non-metallic minerals: Iron and Mica & Bauxite in India.
5. Power and Energy Resources, Coal, Hydro and Petroleum.
6. Non conventional resources

Unit 3

7. Indian agriculture and Green revolution, Production and Distribution of Wheat, Sugarcane, Rice & Tea.
8. Industries: Cotton Textile, Iron and Steel, Sugar, Industrial regions in India.
9. Modes of Transport and Communication.

Unit 4

Maps related to India :- Political: States, State Capitals, Union territories,

Physical: Mountain Ranges, Mountains peaks, Passes, Rivers, Soils, Climate

Cultural: Roadways, Railways, Waterways, Air ways

Population: Density of population, Sex composition.

Selected References:

Singh, Jagdish (2003).....India: A Comprehensive Systematic Geography, Gyanodayapublishan, Gorakhpur, 2nd Edition.

Singh, R.L. (ed. 1971).....India – A Regional Geography, National Geographical Society of India, Varansi, Kalayani publication.

Khullar, D.R. (2000)..... India: A Comprehensive Geography, Kalayani publishers, New Delhi.

Hussain, Mazid (2008)..... Geography of India, Tata Mc Graw Hill Publication, Delhi.

Note: There will be 9 questions in all. Question No. 1 will be compulsory and will be based on entire syllabus. A total of 5 short questions should be framed of such type that the answer can be explained in maximum four or five lines. Alternatively, multiple choice questions can also be framed. Students will have to attempt other four questions selecting at least one question from each unit. From 4th unit there will be two questions on maps will be given out of two students will have to attempt one question. All questions carry equal marks. Candidates will be given to neat and clean maps and diagram and students can use stencil for making map and calculator as per requirement.

Pass percentage is 40% and it is necessary to pass in theory and practical papers separately. Students who get reappear in theory paper need not to give practical exam of that semester.

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Semester 1

CARTOGRAPHIC TECHNIQUES 1

Course code GEP 101

Total Marks 30

Course Objective: This course is framed to make student understand the cartographic techniques which will help them to make scale different land forms by contours and diagram of different types.

1. Definition, Nature and Scope of Cartography: Scale, Statement of Scale and types of scales,
2. Methods of showing Relief and Height: Hachures, Contours, Form lines, Trigonometrically Stations, Spot Heights, Bench Mark
3. Survey of India : Conventional Signs.

Selected References

Singh, L.R. & Singh, R. (2006)..... Practical Geography, Prayag PustakBhawan, Allahabad.

Singh, Gopal (1995), Map Work and Practical Geography, Vikas Publishing House, New Delhi.

Sharma, J.P..... Prayogatak Bhugol, Rastogi Publication, Meerut.

Khullar, D.R. (2000)..... Essentials of Practical Geography, New Academic Publishing Co. Mai Hisar Gate, Jullandher.

Note: There will be four hours of teaching per week for this paper.

Evaluation of Practical record will be done at the time of viva-voce examination.

The practical exam will be held in 3 hrs.

- Practical record of each student will be maintained. The students who get reappear in theory, need not to take practical exams, Marks obtained in practical paper by the students, will be carried forward for subsequent examination.
- Practical groups..... 20 students in each group
- Practical record8
Vi-voce..... 8
Lab work.....14
Total.....30.

Applicable from July 2017

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B.P.S.M. VISHWAVIDYALYA, KHANPUR KALAN (SONIPAT)

B.A.1st

Geography Syllabus 2017

Semester 2

Paper 3

GEOGRAPHY OF HARYANA

Course code GEO 102

Time 3 hours

Marks: 50

Course Objective: To make the students understand about physiographic regions, climatic, socio-cultural and economic condition Haryana.

Unit 1

1. Location, Evolution of the state, Administrative Divisions, Physical and Physiographic Regions
2. Relief, Climate, Drainage & Irrigation.
3. Soil, Soil degradation & Conservation.

Unit 2

4. Types of vegetation, Mineral and Power resources.
5. Impact of Green Revolution, Problems of Agriculture in Haryana.
6. Distribution of major crops, Wheat, Rice, Sugarcane, Cotton.
7. Major Industries in Haryana

Unit 3

8. Density, Distribution & Growth of population (Birth Rate, Death Rate & Migration, Sex Ratio and Literacy).
9. Trends of Urbanization in Haryana, (1966-2001), Distribution of urban population.
10. Transport net work in Haryana. Roadways and railways.

Unit 4

Map work

Haryana : Physical , Political , Rainfall , soil , Modes of irrigation, major crops
Density of Population , Sex Composition , Literacy,
Surface transport in Haryana Roadways, railways, Industries .

Selected References

Khullar, D.R. Bharat or Haryana Ka Bhugol. Singh, Mandeep and Kaur, Harvinder, (2004), Economic Development of Haryana, De and Deep Publication Pvt. Ltd. Delhi-110027.

Singh Jagjeet..... Haryana Digdarshan, Arihant Publications Ltd. India

Vidyapeeth Times, Haryana General Knowledge, Amar Ujala Publications, Noida.

Encyclopedia of Haryana. Encyclopedia, BhugolKhand Volume 8-21, Vani Prakshan, New Delhi.

Note: There will be 9 questions in all. Question No. 1 will be compulsory and will be based on entire syllabus. A total of 5 sh questions should be framed of such type that the answer can be explained in maximum four or five lines. Alternatively, multi choice questions can also be framed. Students will have to attempt other four questions selecting at least one question for each unit. All question carry equal marks. Credit will be given to neat and clean maps and diagram and students can use ster for making map and calculator as per requirement.

Pass percentage is 40% and it is necessary to pass in theory and practical papers separately. Students who get reappear in the paper need not to give practical exam of that semester.

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B.P.S.M. VISHWAVIDYALYA, KHANPUR KALAN (SONIPAT)

B.A.I Syllabus 2017 Geography Practical Semester 2 Paper 4

CARTOGRAPHIC TECHNIQUES 2

Course code GEP 102

Total Credits: 2

Time: 3 hours

Marks: 30

1. Representation of population & Agricultural Data by graphs, bars & diagrams – Simple bar Diagram, Multiple bar Diagram, Circular Diagram, Sub Divided bar Diagram, Pie Diagram, Rectangular Diagram, Graphs: Simple Line, Poly Graph, Climograph and Heather graph. Presentation of data by diagrams on map.
2. Representation of Distribution and Density of Population data: Choropleth and dot method.

Selected References

Singh, L.R. & Singh R. (2006)..... Practical Geography, Prayag PustakBhawan, Allahabad.

Singh, Gopal (1995), Map Work and Practical Geography, Vikas Publishing House, New Delhi.

Sharma, J.P..... Prayogatam kBhugol, Rastogi Publication, Meerut.

Khullar, D.R. (2000)..... Essentials of Practical Geography, New Academic Publishing Co. Mai Hisar Gate, Jullandher.

Note:

- There will be four hours of teaching per week for this paper.
- Evaluation of Practical record will be done at the time of viva-voce examination.
- The practical exam will be held in 3 hrs.
- Practical record of each student will be maintained for internal assessment by using following procedure. The students who get reappear in theory, need not to take practical exams, Marks obtained in practical paper by the students; will be carried forward for subsequent examination.
- Practical record8
Vi-voce..... 8
Lab work.....14
Total.....30.

Applicable from July 2017

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GEOMORPHOLOGY

Course code GET 201

Time: 3 hours

Marks: 50

Course objective: To make the students understand about the physical phenomena related to earth surface a landforms produced by different processes.

UNIT 1

1. Definition, Nature, Scope and Fields of Geomorphology.
2. Interior of the Earth, Geological time scale and rocks

UNIT 2

3. Earth movements: Earthquakes and volcanoes.
4. Theory of Isostasy: Wegner's theory of continental drift and Plate tectonic theory.

UNIT 3

5. Weathering: causes and its types.
6. Mass-movements: causes, its types and impacts.

UNIT 4

7. Concept of cycle of erosion; cycle of erosion by W.M. Davis and Penck.
8. Process of Wind, River, Underground water, Glaciers and Sea waves.

References

1. Sharma H.S. Perspective in Geomorphology, Concept, New Delhi 1980.
2. Singh Savinder, Geomorphology, Prayag Publication, Allahabad 1998.
3. Singh Savinder, Physical Geography Prayag Publication, Allahabad, 1998.
4. Sparks B.W. Geomorphology, Jojngman, London, 1960.
5. Thornbury W.D. 1969 Principles of Geomorphology, New York, John Wiley & Sons.

Note: There will be 9 questions in all. Question No. 1 will be compulsory and will be based on entire syllabus. A total of 5 questions should be framed of such type that the answer can be explained in maximum four or five lines. Alternatively, multiple choice questions can also be framed. Students will have to attempt other four questions selecting at least one question from each unit. All questions carry equal marks. Credit will be given to neat and clean maps and diagrams and students can use a scale for making maps and a calculator as per requirement.

Pass percentage is 40% and it is necessary to pass in theory and practical papers separately. Students who get reappear in the paper need not to give practical exam of that semester.

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WEATHER MAPS AND TOPOGRAPHICAL SHEETS

Course code GEP 201

Total Marks: 30

Time: 3 hours

1. Weather maps: General Introduction to Study of Weather Maps. Scheme of Weather Symbols employed in India, Daily Weather Maps.
2. Weather in India Summer Season (Period of Summer Monsoon), Winter Season. Forecasting of Weather through the study of Weather Maps & recent advances in weather forecasting.
3. Representation of features and slopes: Uniform, Undulating, Gentle, Concave, Convex slopes, Conical hill, Volcanic hill, V-shaped valley, U-shaped valley, Spur, Col, Sand dunes, Re-Entrance, Saddle, Waterfall, Rapids, Sea Cliff, Over Hanging Cliff

Selected References

Singh, L.R. & Singh R. (2006).... Practical Geography, Prayag Pustak Bhawan, Allahabad.

Singh, Gopal (1995), Map Work and Practical Geography, Vikas Publishing House, New Delhi.

Sharma, J.P..... Prayogatamk Bhugol, Rastogi Publication, Meerut.

Khullar, D.R. (2000)..... Essentials of Practical Geography, New Academic Publishing Co. Hisar Gate, Jullandher.

Note: There will be four hours of teaching per week for this paper. Evaluation of Practical record will be done at the time of viva-voce examination.

- The practical exam will be held in 3 hrs.
- Practical record of each student will be maintained. The students who get reappear in theory, need not to take practical exams, Marks obtained in practical paper by the students, will be carried forward for subsequent examination.
- A minimum of 20 sheets are to be prepared by the students, as prescribed in the syllabus
- Practical record8
Vi-voce..... 8
Lab work.....14
Total.....30.

Applicable from 2017

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CLIMATOLOGY AND OCEANOGRAPHY

Course code GET 202

Time: 3 hours

Marks: 50

Course objective: To make the students understand about the mechanism of atmosphere, weather, climate and oceans

Unit 1

1. Weather and Climate; Origin, composition and structure of atmosphere.
2. Isolation, Global heat budget, Horizontal and vertical distribution of temperature, Inversion temperature.

Unit 2

3. Atmospheric pressure- measurement and distribution, Pressure belts, Planetary winds and Local winds.
4. Humidity- measurement and variables, Evaporation, Condensation, Precipitation-forms, types and distribution.

Unit 3

5. Air masses- concept and classification; Fronts- type and characteristics, Weather disturbances- tropical and extra-tropical cyclones.
6. Climatic change and Global warming.

Unit 4

7. Ocean floors and surface relief of Pacific, Atlantic and Indian Oceans; Salinity of Oceans.
8. Oceanic currents; Circulation in Pacific, Atlantic and Indian 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.

Note: There will be 9 questions in all. Question No. 1 will be compulsory and will be based on entire syllabus. A total of 5 short questions should be framed of such type that the answer can be explained in maximum four or five lines. Alternatively, multiple choice questions can also be framed. Students will have to attempt other four questions selecting at least one question from each unit. All questions carry equal marks. Credit will be given to neat and clean maps and diagrams and students can use stencil for making maps and calculator as per requirement. Pass percentage is 40% and it is necessary to pass in theory and practical papers separately. Students who get reappear in theory paper are not to give practical exam of that semester.

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MAP PROJECTION

Course code GEP 202

Total Marks: 30

Time....3 hrs.

Introduction to Map Projections: Meaning and classification and importance: Characteristics of latitudes longitude lines.

Types of Projection

Cylindrical: Simple Cylindrical Projection, Cylindrical Equal Area Projection, Mercator's Projection

Conical:- Conical Projection with One Standard Parallel ,Conical Projection with Two Standard Parallel, Bon Projection , Polyconic Projection

Zenithal: Polar Cases Only:- Perspective projections: Gnomonic, Stereographic and Orthomorphic , Perspective Projections: Equidistant, Equal Area.

Conventional:- Sinusoidal Projection. , Mollwedies Projection.

Selected References:

Mishra, R.P. & Ramesh, A. (1989).....Fundamentals of Cartography, Concept Publishing Co. New Delhi.

Singh, L.R. & Singh, R. (2006)..... Practical Geography, PrayagPustakBhawan, Allahabad.

Singh, Gopal (1995), Map Work and Practical Geography, Vikas Publishing House, New Delhi.

Sharma, J.P..... PrayogatankBhugol, Rastogi Publication, Meerut.

Khullar, D.R. (2000)..... Essentials of Practical Geography, New Academic Publishing Co. Mai Hisar Gate, Jullandher.

Note: There will be 4.5 hours of teaching per week for this paper. Evaluation of Practical record will be done at the time of viva-voce examination.

- The practical exam will be held in 3 hrs.
- Practical record of each student will be maintained. The students who get reappear in theory, need not to take practical e: Marks obtained in practical paper by the students , will be carried forward for subsequent examination.
- Practical groups..... 15 students in each group.
- Practical record8
Vi-voce..... 8
Lab work.....14
Total.....30.

Applicable from July 2017

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POPULATION GEOGRAPHY

Course code GEO 301

Total Marks: 50

Time....3Hours

Course objective: The course deals with spatial and temporal analysis of population in the world in general a India in particular

Unit 1

1. Population Geography : Nature & Scope of Population Geography
2. Sources & Nature of Population Data in India: Census, National Sample Surveys and sample Registrati System.

Unit 2

3. Population Growth: Factors affecting Population Growth, Population Growth in India from 1901-2011.
4. Population Theories- Malthusian theory of Population Growth & its relevance in modern conte Demographic Transition Theory.
5. Concepts of Optimum Population, Over Population & Under Population.

Unit 3

6. Population: Factors affecting Distribution of Population. Distribution of Population in India- 2011,
7. Population Density: Factors affecting Density , Density of Population in India,2011.
8. Fertility: Factors affecting Fertility & Fertility in India 2011 , Mortality: Factors affecting Mortality Mortality in India 2011.
9. Sex Composition: Factors affecting Sex Composition & Sex Ratio in India 2011.

Unit 4

- 10 Migration: Factors affecting Migration. Types of Migration, Consequences of Migration
11. Urbanization- Meaning & Factors affecting Urbanization , Urbanization in India 2011.
12. Population Problems and Policies in India.

Selected References:

Chandana, R.C. (2009) A Geography of Population, Kalyani Publishers, Ludhiana 2nd Edition.

Ghosh, B.N. (1978). Population Theories & Demographic Analysis, Menasha Parakshan, Meerut.

Hssan I. H. (2005) Population Geography , Rawat Publication, Jaipur.

Note: There will be 9 questions in all. Question No. 1 will be compulsory and will be based on entire syllabus. A total of 5 short questions sh be framed of such type that the answer can be explained in maximum four or five lines. Alternatively, multiple choice questions can als framed. Students will have to attempt other four questions selecting at least one question from each unit. All question carry equal m Credit will be given to neat and clean maps and diagram and students can use stencil for making map and calculator as per requirement. Pass percentage is 40% and it is necessary to pass in theory and practical papers separately. Students who get reappear in theory paper i not to give practical exam of that semester.

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STATISTICAL METHODS

Course code GEP 301

Total Marks: 30

Time....3 hrs.

1. Importance of Statistics in data analysis.
2. Measures of Central Tendency, Arithmetic Mean, Median, Mode
3. Measures of Dispersion: Standard Deviation and co- efficient of variability.
4. Scatter Diagram, Correlation: Carl Pearson's Method, Rank Correlation

Selected References:

1. Ebdon, D(1977) Statistical Methods in Geography, A practical Aproach, Basil Blackwei, Oxford.
2. Mahmood, A. (1977) Statistical Methods in Geographical Studies, Rajesh Publication, New Delhi.
3. Silk,J. (1979) Statistical Concept in Geography, Allen and Unvin, London

Note:

- There will be four hours of teaching per week.
- The practical exam will be held in 3 hrs.
- Practical record of each student will be maintained .The students who get reappear in theory, need not to take practical ex
Marks obtained in practical paper by the students , will be carried forward for subsequent examination.
- Practical groups..... 15 students in each group.
- Practical record8
Vi-voce..... 8
Lab work.....14
Total.....30.

Applicable from July 2017

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ENVIRONMENTAL GEOGRAPHY

Course code GET 302

Total Marks: 50

Time....3hrs.

Course objective: The course deals with basic understanding of environment ranging from concepts, problems to policies.

Unit-1

1. Environmental Geography: Definition, scope & approaches of Environmental Geography, Components of environment.
2. Ecosystem- Meaning types, components & functioning of Ecosystem.

Unit-2

3. Man-Environment relationship: Man's interactions with environment Historical Perspective- with references to early period of Industrialization and period of science and Technology.
4. Energy flow in the ecosystem:- Sources of energy, ecological production tropic levels, food chains & food webs, ecological pyramids , number pyramids.

Unit-3

5. Biomes- meaning & types, Tropical evergreen forest biome, Monsoon deciduous forest biome, Mediterranean biome.
6. Environmental Degradations:- Meaning , Types, Process of Degradations Cases of environmental Problems, Deforestation conservation measures, Ozone depletion and its effects.

Unit-3

7. Environmental Hazards & disasters – Meaning, Concept & Types of Natural Hazards/ Disaster.
8. Environmental pollution and Management:- Definition, factors, types sources. Types of air and water pollutions and management in India.
9. Laws and environmental policies in India.

Selected References:

1. Singh.S (2009) Environmental Geography (Eng) Prayag Pustak Bhawan, Allahabad.
2. Singh.S (2009) Environmental Geography (Hindi) Prayag Pustak Bhawan, Allahabad.
3. Singh, R.B. (1996), Disaster, environment and Development Oxford & IBH Publishing House, New Delhi.
4. Singh, R.B. (2006), Natural Hazards and Disaster Management, Rawat Publishers, Jaipur.

Note: There will be 9 questions in all. Question No. 1 will be compulsory and will be based on entire syllabus. A total of 5 short questions should be framed of such type that the answer can be explained in maximum four or five lines. Alternatively, multiple choice questions can also be framed. Students will have to attempt other four questions selecting at least one question from each unit. All questions carry equal marks. Credit will be given to neat and clean maps and diagrams and students can use stencil for making maps and calculator as per requirement. Pass percentage is 40% and it is necessary to pass in theory and practical papers separately. Students who get reappeared in theory paper need not to give practical exam of that semester.

Applicable from July 2017

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COMPUTER APPLICATION IN GEOGRAPHY AND FIELD REPORT

Course code GEP 302

Total Marks: 30

Time....3hrs

1. Computer:- Use of Computer in Geography, use of Internet.
2. Field report: Collection of data and report writing.
3. A report of market or traffic or village or a locality survey can be submitted.
(For this purpose long field tour may be organized with 50% financial support (T.A.) from B.P.S. Mah Vishwavidyalaya)

Selected References:

1. R.P. Mishra.....Research Methods, Concept Publication, New Delhi.
2. R.L. Singh and Rana, P.B. Singh, Practical Geography, Kalyani Publication.
3. N.S. Gill,Essential of Computer and Network.
4. V. Rajaraman,.....Fundamental of Computer.

Note:

- There will be four hours of teaching per week for this paper.
- Evaluation of Practical record will be done at the time of viva-voce examination.
- The practical exam will be held in 3 hrs.
- The students will produce the report of the area under survey.
- Practical groups..... 15 students in each group.
- Practical record8
Vi-voce..... 8
Lab work.....14
Total.....30.

Applicable from July 2017

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