

(1) ENGLISH LANGUAGE

Question : Discuss the uses and abuses of technology in relationships.

Instructions:

1. The answer is to be of approximately **500 words**.
2. **Only Spiral binding** to be used with soft, plastic, transparent covers (not coloured)
3. **Only black ink** to be used (no decoration; pictures are optional)
4. Introduction and conclusion: 2 pages (1+1=2)

[No acknowledgment, contents, bibliography]

(2) ENGLISH LITERATURE

Question : Referring closely to *The Tempest*, discuss the various conspiracies and how they were foiled?

Instructions:

1. Length of the answer – 1,000 to 1,500 words.
2. **Only Spiral binding** to be used with soft, plastic, transparent covers (not coloured)
3. It must be written in **black ink only**. (no decoration; pictures are optional)
4. No acknowledgment, contents, bibliography.
5. The answer must have an introduction, the main content and a conclusion.
6. Use of various literary aspects, organization, structure and presentation of the answer will be evaluated in detail.

(3) MATHEMATICS

Project 1:

Explain the concept of increasing and decreasing function using geometrical significance of dy/dx . Illustrate with proper example.

Project 2:

Find the area bounded by a parabola and an oblique line.

(4) BIOLOGY

The candidate is to creatively execute **one project/assignment** on an aspect of biology. Following is only a suggestive list of topics:

1. Genetic disorders
2. Gene therapy
3. Human Genome Project
4. DNA fingerprinting
5. Bio-piracy
6. Cancer
7. AIDS / Hepatitis
8. Drug addiction and community
9. Role of micro-organisms in industry
10. Human population
11. Mendelian Inheritance

12. Environmental resistance
13. Traditional and modern methods: study of a few traditional methods of pest deterrence vis-à-vis modern methods of pest control – viability of traditional methods in today's scenario and limitations and dangers of modern methods.
14. Role of agrochemicals in increasing food production

Format of the project:

- ❖ Title page
- ❖ Acknowledgement
- ❖ Content
- ❖ Introduction
- ❖ Presentation (graphs/tables/charts/newspaper cutting/handmade diagrams/photographs/statistical analysis if relevant)
- ❖ Conclusion/Summary
- ❖ Bibliography

Project should be handwritten by the candidate. Written pages should not exceed 15 – 20 pages.

(5) COMPUTER ASSIGNMENTS

Program based on:

Encapsulation, arrays, String handling, Methods, constructors, File handling, Data Structures etc.

(Total 20 programs)

(6) GEOGRAPHY – CLASS XII ARTS

GEOGRAPHY PRACTICAL & PROJECT TOPICS

Candidates will be required to undertake the following Practical work and Project work.

1. **Practical Work:**

- (i) Drawing of scales: linear, graphic scales showing primary and secondary divisions; representative fractions and statement of scale methods.
- (ii) Drawing of cross-section or profiles of important contours, viz. ridge, plateau, escarpment, valley, conical hill, types of slope, sea cliffs, waterfalls, spurs, by using vertical exaggeration and horizontal equivalent.
- (iii) Understanding and illustrating location references of SO1 maps.
- (iv) Map reading and interpretation of survey of India maps: Study will be based on representative portions of any three topographical sheets. It will include the description of location, extent, relief features, drainage, land use, settlement patterns, communications and inferences about human occupations and stage of economic development of the area.
- (v) Introduction to Geographic Information System. Elements of visual interpretation of remote sensing maps/images.
Colour significance in the image and true colour (false colour composition): texture: size; shape; shadow; association.
(Reference material – Wikipedia, Google earth, IIRS Hyderabad).
- (vi) Elementary principles of surveying an area: preparing two plans of school compound and/or a small area using Plane table/GPS.

2. **Project Work (Assignment)**

Local field surveys on any **one** of the following will be submitted as Project Report. The length of project report will be 15-20 written pages, excluding photographs, maps, diagrams and sketches. No extra credit will be given for computer based maps or text. These surveys should be organized with a table of contents, sample taken and statistical methods used, interview schedule. The report should be organized systematically and the conclusions should be clearly stated.

- (i) Agricultural land use survey.
Choose a district or topographical map of an area 1: 250000 and make a sketch map showing land use: compare the patterns of these. Alternatively, a local village could be chosen and the fields mapped from the cadastral map with information on the crops grown in different seasons and the location of the village, its roads and landmarks, if any
- (ii) Household survey of about 30-60 households of a village or locality.
Family size, age structure, educational background, occupation involvement of men and women in economic activity, educational service. Draw conclusions to reflect the economic development of the households.
- (iii) Amenity study.
Study of hospitals in a city, schools (school where you studied), post offices, municipal zones within the city (blocks in a village study) – reasons for travel (based on the importance and demand for the place), travel time, travel distance, mapping the hinterland of the service.
- (iv) Study of manufacturing industry or a self employed person.
Visit a manufacturing unit or self employed person – cycle or car repair shop, small fabricating unit, factory if nearby and find out – source of raw material supply routes, final product, areas where it is sent manpower strength and their organization.
- (v) Area development of a multipurpose project – impact on the region.
Self-explanatory.

The Practical Work and the Project Work will be assessed by the teacher and a Visiting Examiner appointed locally and approved by the Council. No question paper for practical work and project work will be set by the Council.

Evaluation of Practical Work and Project Work will be as follows:

Practical file (Sessional Record)	:	10 marks
Assignment (Project Report)	:	10 marks
Viva Voce	:	10 marks

GUIDELINES FOR GEOGRAPHY PROJECT – XII

- 1) Cover of the copy should be white or brown as instructed by the teacher in the class.
- 2) On the Cover Page –

GEOGRAPHY PROJECT ISC – 2022

and on the right hand side at the end of the cover page –

Name – Class – Sec – Roll No _ should be written

- 3) Page limits – Minimum 10 & Maximum 15 and Arrangements should be done in the following manner –
 - i) Acknowledgement
 - ii) Contents
 - iii) List of Illustration
 - iv) Introduction followed by the explanation of the Topics
(No space should be left in between)

- v) Conclusion
- vi) Bibliography
- 4) Headings of each topic should be written in bold letters and below the margin.
- 5) Every page should possess a picture or data.
- 6) Use only black pen for writing. Highlight important points with blue, green or brown.
- 7) Class XI & XII are only allowed to use multicoloured pictures.
- 8) Only diagrams and figures drawn by the students can be colorful.

(7) SOCIOLOGY

List of suggested studies for Project Work:

1. Different types of kinship systems (patriarchal/matriarchal with examples as the base of discussion.)
2. Different marriage customs in India (comparisons can also be done).
3. Changing nature of the Indian family.
4. Religion and Society (focus can be on the biography of a world religion).
5. The problem of Communalism in India.
6. Traditional economies and the barter system.
7. Consumerism and modernization.
8. The status of women in traditional society.
9. The changing status of women in India.
10. Women Leaders.
11. The role of Education in creating social change.
12. Media and modernization.
13. The internet as a substitute for family and school.
14. Globalisation and its impact on the individual and society.
15. Social Movements (focus on the biography of a movement that is based on the efforts of a caste/tribe/women/religious group/ class or connect two aspects, for example, the Narmada Bachao Andolan is a tribal movement and has a woman as its leader in Medha Patkar).
16. Role of society in development and environment – (public awareness, education programmes, campaigns, public participation in decision – making, etc. e.g. Chipko Movement, Appiko in Karnataka, Eco Clubs, etc.
17. Study a few noteworthy examples of sustainable development eg. Barefoot College in Tilonia, the work of NGOs like DDS in Andhra Pradesh in promoting self-sustenance in rural communities through developing seed banks, cultivation of millets and through promoting microfinance in the Grameen bank model.
18. The policy of reservation in India or The backward class movement.
19. The significance of Mandal Commission.
20. The rising Middle Class in India.
21. The nature of protest in rural India (example Singur).
22. Race and examples of Racism (Apartheid/American Racism).
23. The birth of new states in India based on ethnic separatism.
24. The Uttarakhand tragedy : natural or manmade disaster?
25. Superstitions and Taboos.

The studies chosen are primarily theoretically oriented and based on concepts learnt in the class. Because these studies are theoretical, the methodology will be different and would be based on secondary data collection and its analysis and interpretation. Board suggestions about how to approach similar studies are given below:

- 1) No. of pages for each project is 15+5=20 pages (including acknowledgement, content, conclusion and bibliography) Pages cannot be less.
- 2) Pictures to be pasted whenever relevant.
- 3) Use black pen for writing. To highlight use brown, blue, green colours.
- 4) Project copies to be covered in white.
- 5) Work should be neat and tidy, no overwriting. Do not use whitener.

(8) POLITICAL SCIENCE

List of suggested topics for Project Work:

Given below is a list of suggested topics for Project work, along with guidelines.

- 1) Judicial Activism – two case studies in which the Judiciary has safeguarded the environment or human rights.
 - Reason for selection of the topic.
 - Framing the Research Question
 - Hypothesis
 - Define Judicial Activism and the need for Judiciary to intervene in the work of Legislature and Executive and other matters of social concerns.
 - Positive role played by Judiciary in this direction to be highlighted with the help of two case studies based on environmental protection or safeguarding human rights.
 - Student’s perception of the concept.
 - Valid suggestions for reforms in Judiciary.
- 2) Public accountability of Civil Servants in India – Is it a myth or a reality?
 - Reason for selection of the topic.
 - Framing the Research Question
 - Hypothesis
 - Meaning of Public accountability of Civil Servants to be explained.
 - Positive and crucial role of public servants in a democracy.
 - Loopholes in the existing bureaucratic set up.
 - Inferences can be drawn about Public accountability being a myth or reality from various sources like print / electronic media, film review, documentaries.
- 3) Party System in India – changing phases.
 - Reason for selection of the topic.
 - Framing the Research Question.
 - Hypothesis.
 - A brief timeline of Party Systems since independence to be prepared.
 - Strengths and limitations of different systems to be highlighted.
 - Success and failure of various systems to be analysed with reference to the role of regional parties in coalition era.
 - Few examples to be explained with the help of statistical information.
 - Student’s vision of rapidly evolving Party system in India.
- 4) Examine one Supreme Court case dealing with Fundamental Rights. Identify the issues of the case and analyse the final ruling.
 - Reason for selection of the topic.
 - Framing the Research Question.
 - Hypothesis
 - Nature and reasons of violation of Fundamental Rights to be explained.
 - A case study of violation and protection of Fundamental Rights in the light of the ruling given by the apex court to be analysed.

- Remedial steps to be taken to prevent this problem to be suggested.
- 5) Role of Local Self Government institutions in women empowerment.
- Reason for selection of the topic.
 - Framing the Research Question.
 - Hypothesis
 - Need for women empowerment to be explained with reference to a few examples.
 - Positive role played by local self-governments to be stated.
 - Collection of data based on statistics and analysis.
 - The project could be in the form of a case study for example – a film review, book review, advertisements, T.V. serials, documentaries, newspaper articles, journals.
 - Student’s suggestions for more active participation of women in Indian electoral politics.
- 6) Explore the controversies around the development of a Uniform Civil Code mentioned in the Directive Principles.
- Reason for selection of the topic.
 - Framing the Research Question
 - Hypothesis
 - Clarification of the concept of Uniform Civil Code with instances from world constitutions.
 - Need for a Uniform Civil Code with reference to Constituent Assembly Debates, historical perspective (parliamentary debates and judicial pronouncements), the present socio-political scenario and the stand of various political parties.
 - Controversies and reasons for non adoption.
 - Student’s view point and position on the issue.
- Alternately this project could also be undertaken survey method or any other method.
- 7) Identify and explain the electoral reforms that are urgently needed in India.
- Reason for selection of the topic.
 - Framing the Research Question
 - Hypothesis
 - Define electoral reforms.
 - Urgency for electoral reforms.
 - Efforts made in the past.
 - Parliamentary debates on this issue.
 - Role of the Election Commission.
 - Stand of various political parties.
 - Judicial pronouncements.
 - Student’s observations
- 8) Discrimination faced by a girl child.
- Reason for selection of the topic.
 - Framing the Research Question
 - Hypothesis
 - Gender as an identity.
 - Collection of data based on statistics and analysis.
 - The project could be in the form of a case study for example a film review, book review, advertisements, T.V. serials, documentaries.
 - Inferences drawn
- 9) Right to Education: To what extent has it benefited the slum children?
- Reason for selection of the topic.
 - Framing the Research Question
 - Hypothesis
 - Constitutional provisions.

