

CBSE | DEPARTMENT OF SKILL EDUCATION

GEO-SPATIAL (SUBJECT CODE: 818)

Blue-print for Sample Question Paper for Class XI (Session 2024-2025)

Max. Time: 3 Hours

Max. Marks: 60

PART A - EMPLOYABILITY SKILLS (10 MARKS):

UNIT NO.	NAME OF THE UNIT	OBJECTIVE TYPE QUESTIONS	SHORT ANSWER TYPE QUESTIONS	TOTAL QUESTIONS
		1 MARK EACH	2 MARKS EACH	
1	Communication Skills - III	1	1	2
2	Self-Management Skills - III	2	1	3
3	Information and Communication Technology Skills - III	1	1	2
4	Entrepreneurial Skills - III	1	1	2
5	Green Skills - III	1	1	2
TOTAL QUESTIONS		6	5	11
NO. OF QUESTIONS TO BE ANSWERED		Any 4	Any 3	07
TOTAL MARKS		1 x 4 = 4	2 x 3 = 6	10 MARKS

PART B - SUBJECT SPECIFIC SKILLS (50 MARKS):

UNIT NO.	NAME OF THE UNIT	OBJECTIVE TYPE QUESTIONS	SHORT ANS. TYPE QUES.- I	SHORT ANS. TYPE QUES.- II	DESCRIPTIVE/ LONG ANS. TYPE QUESTIONS	TOTAL QUESTIONS
		1 MARK EACH	2 MARKS EACH	3 MARKS EACH	4 MARKS EACH	
1.	Geospatial Overview	5				5
2.	Maps and Cartography	4	1		1	10
3.	Remote Sensing	8		1	1	15
4.	Global Information System	4	2	1	1	15

5.	Global round positioning system	5				5
TOTAL QUESTIONS		32	5	3	5	45
NO. OF QUESTIONS TO BE ANSWERED		26	Any 3	Any 2	Any 3	34
TOTAL MARKS		1 x 26= 26	2 x 3 = 6	3 x 2 = 6	4 x 3 = 12	50 MARKS

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Sample Question Paper for Class XI (Session 2024-2025)

Max. Time: 3 Hours

Max. Marks: 60

General Instructions:

1. Please read the instructions carefully.
2. This Question Paper consists of **24 questions** in two sections – Section A & Section B.
3. Section A has Objective type questions whereas Section B contains Subjective type questions.
4. **Out of the given (6 + 18 =) 24 questions, a candidate has to answer (6 + 11 =) 17 questions in the allotted (maximum) time of 3 hours.**
5. All questions of a particular section must be attempted in the correct order.
6. **SECTION A - OBJECTIVE TYPE QUESTIONS (30 MARKS):**
 - i. This section has 06 questions.
 - ii. There is no negative marking.
 - iii. Do as per the instructions given.
 - iv. Marks allotted are mentioned against each question/part.
7. **SECTION B – SUBJECTIVE TYPE QUESTIONS (30 MARKS):**
 - i. This section contains 18 questions.
 - ii. A candidate has to do 11 questions.
 - iii. Do as per the instructions given.
 - iv. Marks allotted are mentioned against each question/part.

SECTION A: OBJECTIVE TYPE QUESTIONS

Q. 1	Answer any 4 out of the given 6 questions on Employability Skills (1 x 4 = 4 marks)	
i.	<p>What does an upright (straight) body posture convey or show?</p> <p>a. Shyness b. Fear c. Confidence d. Intelligence</p>	1
ii.	<p>A/An is a group of people working together towards achieve a common goal.</p> <p>a. Co-ordination b. Family members c. Internet d. Team</p>	1
iii.	<p>Your family has moved to a new home. Your next door neighbor pays a visit. What should you do?</p> <p>a. Tell them you are in the middle of shifting and cannot speak right now. b. Give them an insincere smile and ask them to leave. c. Get irritate and tell them that they have dropped in without informing. d. Welcome them, introduce your family and thank them for coming.</p>	1
iv.	<p>Which shortcut keys will you use to insert a table in a LibreOffice Writer document?</p> <p>a. F12 b. Ctrl+F12 c. F7 d. F9</p>	1
v.	<p>A plan is a detailed plan of what an Entrepreneur wants to achieve through the business and how it will be achieved.</p> <p>a. Study b. Monthly c. Seasonal d. Business</p>	1
vi.	<p>Who is responsible for the success of green economy in the country?</p> <p>a. Government b. Social Workers c. Individual Citizens d. All of the above</p>	1

Q. 2	Answer any 5 out of the given 7 questions (1 x 5 = 5 marks)	
i.	<p>Geographical features are generally classified into two parts:</p> <p>A. Natural and Man Made, B. Land scape and Environment, C. Earth and Planet, D. Land and Water.</p>	1

ii.	What are natural features A. River, B. Mountain, C. Forest, D. all three	1
iii.are the features such as buildings, roads, agricultural reservoir and dams etc. A. Natural Features, B. Man Made Feature, C. Natural Landscape, D. Natural Beauty	1
iv.	Geospatial technology captures and stores the data in two ways. Name them A. Spatial and Non Spatial, B. Data and Map, C. GIS and Remote Sensing, D. Topographic Sheet and Physiographic Map	1
v.	Geospatial Technology includes three different technologies. Name them? A. Remote sensing, GIS & GPS, B. Map, Data and software, C. feature, object and entities, D. all three	1
vi.	GPS is a Navigation system which does not provide latitude and longitude. A. True, B. false, C. partially true, D. partially false.	1
vii.	What is a globe? A. Globe is the model of the earth which represents the earth in a three-dimensional way. B. a globe is the sphere on which the map of the earth is shown and it is rotating at its axis which shows the rotation of the earth. C. A is correct and B is wrong D. Both A and B are Correct and B represent the A correctly	

Q. 3	Answer any 6 out of the given 7 questions (1 x 6 = 6 marks)	
i.	Small scale map shows greater details. A. True B. False C. Fewer detail about big geographic area D. Greater details about a small geographical areas	1

ii.	The maps used in navigation and planning are: A. Topographical maps B. climate maps C. navigation and road maps D. all above three	1
iii.	Maps are classified into two scale maps. Name them. A. small-scale and large-scale maps. B. Simple scale and compound scale map C. Medium scale and engineering scale D. Fractional scale or Ratio Scale	1
iv.	Which latitude represents the zero degree latitude? A. equator line B. tropic of cancer C. tropic of capricorn D. Antarctic Circle	1
v.	Maps represent the earth A. three-dimensionally. B. Two--dimensionally C. One--dimensionally D. All three--dimensionally	1
vi.	Which is the source of energy for remote sensing? A. Sun, B. Radar, C. Lidar, D. EMR	1
vii.	What is frequency? A. number of crests per second B. number of wave per minutes C. number of radiation per second D. all above three	

Q. 4	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i.	What is the range of visible spectrum? A. It is approximately 0.4 to 0.7 micrometre B. It is approximately 0.8 to 0.9 micrometre C. It is approximately 1.0 to 1.5 micrometre D. All the above	1

ii.	Can human eye recognize beyond visible band? A. Yes B. No C. Partially visible D. All above	1
iii.	What is the altitude of remote sensing satellite? A. the altitude of remote sensing satellites is around 100-200 kilometres. B. the altitude of remote sensing satellites is around 50-100 kilometres. C. the altitude of remote sensing satellites is around 700-800 kilometres. D. the altitude of remote sensing satellites is around 10-50 kilometres.	1
iv.	Name types of sensors. A. Passive and Active sensors B. Temperature and Pressure Sensors C. Humidity and Force Sensors D. Fluid Property and Vibration Sensors	1
v.	Name the remote sensing data products? A. Analog data B. Digital data C. Both A & B D. Vector Data	1
vi.	What is the source of satellite imagery? A. Sensor B. Google earth C. USGS Data D. NASA	1

Q. 5	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i.	Name the components of GIS? A. Hardware and Software B. Data, People and Methods C. Satellite Image and GPS D. both A and B	1
ii.	In Raster data each area is divided in rows and columns. True or False? A. true B. False C. Neither true nor false D. Partially false	1
iii.	Vectors are used to store Non-Spatial Data. True or False? A. true B. False C. Neither true nor false D. Partially false	1
iv.	Name the elements of Vector data? A. Point features, Line features and Polygon features B. Pixel features, Array of Pixel features and Group of Pixel features C. Both A and B D. Object, Attribute and shape file	1

v.	How many satellites are there in GPS System? A. 14 satellites B. 24 satellites C. 12 satellites D. 20 satellites	1
vi.	What information can we get from GPS? A. From GPS we can get information of location on land sea and in air. B. From GPS we can get information of resources, land and minerals. C. From GPS we can get information of location on everything . D. From GPS we can get information of books, cloths and pen.	1

Q. 6	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i.	Where is the Master Control Station? A. Hawaii B. Ascension Island C. Diego Garcia D. US Space Command or Colorado springs	1
ii.	Who is sole responsible for Control Segment? A. Indian Department of Defense B. France Department of Defense C. China Department of Defense D. DoD US Department of Defense	1
iii.	Which component is the user Segment of GPS? A. GPS receiver B. GPS Control Station C. GPS User D. All the Above	1
iv.	----- is the art and science of creating maps that depict the geographical area of a certain area of land, such as forests, rivers, mountains, and other landforms. A. Cartography B. Geography C. Science D. Survey	1
v.	What format does GIS use to store data? Give it a name. A. Tabular B. Raster C. Vector D. All three	1
vi.	Three separate technologies are included in geospatial technology. What are their names? E. GIS, Remote Sensing, & GPS F. GIS, Aerial Photography, Toposheet G. Toposheet, Satellite Imagery, Survey Technology H. GIS, Cartography, & Field Work	1

SECTION B: SUBJECTIVE TYPE QUESTIONS

Answer any 3 out of the given 5 questions on Employability Skills (2 x 3 = 6 marks)

Answer each question in 20 – 30 words.

Q. 7	Write any two uses of punctuation sign 'Comma'.	2
Q. 8	Suggest any two steps for effective Time Management to your friend Shiva/Shivi.	2
Q. 9	Why the red wavy lines show under the word in word processing software in any document?	2
Q. 10	What do you understand the Trading Business?	2
Q. 11	What is the meaning of Sustainable Development?	2

Answer any 3 out of the given 5 questions in 20 – 30 words each (2 x 3 = 6 marks)

Q. 12	Name the elements of Maps ?	2
Q. 13	What are the differences between point, line and Polygon?	2
Q. 14	Name the data sources used for GIS?	2
Q. 15	What do you understand by attribute information and how is it used in GIS?	2
Q. 16	What is the distinction between a globe and a map?	2

Answer any 2 out of the given 3 questions in 30– 50 words each (3 x 2 = 6 marks)

Q. 17	What are the different types of remote sensing platforms?	3
Q. 18	What is (i) a pixel and (ii) resolution?	3
Q. 19	How is GIS used to locate Place of Interest?	3

Answer any 3 out of the given 5 questions in 50– 80 words each (4 x 3 = 12 marks)

Q. 20	Write a brief note on Indian remote sensing system.	4
Q. 21	Explain the processes involved in Remote sensing	4
Q. 22	Explain any two applications of GIS?	4
Q. 23	What are some of the advantages of a topographic map?	4
Q. 24	Why is a Geographic Information System (GIS) required?	4