CBSE | DEPARTMENT OF SKILL EDUCATION

Geospatial Technology (SUBJECT CODE - 818)

MARKING SCHEME FOR CLASS XII (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. No.	QUESTION	Source Material (NCERT/PSSCIVE/ CBSE Study Material)	Unit/ Chap. No.	Page no. of source material	Marks		
Q. 1	Answer any 4 out of the given 6 questions o	n Employability Skills (:	1 x 4 = 4 n	narks)			
i.	A sentence is a group of words, which together expresses a complete idea that has meaning.	Book on Employability Skills	Unit 1	Pg. 16	1		
ii.	Openness	Book on Employability Skills	Unit 2	Pg. 33	1		
iii.	Ctrl+P	Book on Employability Skills	Unit 3	Pg. 48	1		
iv.	A startup is a company that is in the first stage of its operations.	Book on Employability Skills	Unit 4	Pg. 88	1		
v.	United Nations Environment Program	Book on Employability Skills	Unit 5	Pg. 112	1		
vi.	To select an entire worksheet, click the grey rectangle on the upper left corner of the worksheet.	Book on Employability Skills	Unit-3	Pg. 46	1		
Q. 2	Answer any 5 out of the given 7 questions (1 x 5 = 5 marks)						
i.	Gamma	CBSE Book	1	2	1		
ii.	Radiation	CBSE Book	1	6	1		
iii.	K Means	CBSE Book	1	29	1		

iv.	Resampling	CBSE Book	1	20	1			
v.	1m	CBSE Book	1	14	1			
vi.	Irregular	CBSE Book	1	50	1			
vii.	Organization	CBSE Book	2	58	1			
Q. 3	Answer any 6 out of the given 7 questions (1 x 6 = 6 marks)							
i.	Digital	CBSE Book	2	94	1			
ii.	Topological	CBSE Book	2	63	1			
iii.	Containment	CBSE Book	2	63	1			
iv.	Digitization	CBSE Book	2	68	1			
v.	Geo-referencing errors	CBSE Book	2	72	1			
vi.	North	CBSE Book	3	101	1			
vii.	Galileo	CBSE Book	3	113	1			
Q. 4	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)						
i.	Survey	CBSE Book	3	112	1			
ii.	Worse	CBSE Book	3	108	1			
iii.	RGB	CBSE Book	4	127	1			
iv.	Location based services	CBSE Book	4	139	1			
v.	Mobile GIS	CBSE Book	4	136	1			
vi.	Economic data	CBSE Book	5	148	1			
Q. 5	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)							
i.	Tone	CBSE Book	1	33	1			
ii.	DIAL Lidar	CBSE Book	1	46	1			
iii.	Topology	CBSE Book	2	63	1			
iv.	UTM	CBSE Book	2	88	1			
v.	Orbital errors	CBSE Book	1	20	1			
vi.	Enterprise	CBSE Book	4	134	1			
Q. 6	Answer any 5 out of the given 6 questions (2	1 x 5 = 5 marks)						
i.	Utility	CBSE Book	5	151	1			
ii.	Image analyst should recognize classes in an image based on prior knowledge and assign them class names called training sites.	CBSE Book	1	29	1			
iii.	Everest	CBSE Book	2	89	1			
iv.	Trilateration	CBSE Book	3	104	1			
v.	Give proper idea of height and depth of the objects.	CBSE Book	4	137	1			
vi.	Distress call management, Missile tracking system, border vigilance system etc.	CBSE Book	5	151	1			

SECTION B: SUBJECTIVE TYPE QUESTIONS

Q. No.	QUESTION	Source Material (NCERT/PSSCIVE/ CBSE Study Material)	Unit/ Chap. No.	Page no. of source material	Marks		
Answ	Answer any 3 out of the given 5 questions on Employability Skills in $20 - 30$ words each $(2 \times 3 = 6)$						
mark	marks)						
Q. 7	Receiving, Understanding, Remembering, Evaluating,	Book on Employability	Unit 1	Pg. 5	1/2+1/2+1/2=2		

	Responding		Skills			
Q. 8	(Any 2 differences each)					
	intrinsic motivation It may come from within. It includes activities for which there is no apparent reward but one derives enjoyment and satisfaction in doing them. Incentives related to the motive or goal can satisfy one's needs.	extrinsic motivation It is inspired by others or events. It arises because of incentives or external rewards. Lack of motivation or incentives may lead to frustration,	Book on Employability Skills	Unit 2	Pg. 24	1/2+1/2+1/2=2
Q. 9	appears. 3. Type in a pass	heet ument dialog box word. e password in the	Book on Employability Skills	Unit 3	Pg. 60	2
Q. 10	 Decisiver importar setting u venture. It is about opporturit. An opportunity i something, generatime or moment 	ness is the most attribute while p a business it identifying an acting on a chance to do erally, the right to do something.	Book on Employability Skills	Unit 4	Pg. 99	1+1=2
Q. 11	 (Any 4 benefits) increase the e energy and raw reduce greenh emissions. 	fficiency of material.	Book on Employability Skills	Unit 5	Pg. 114	1/2+1/2+1/2=2

	 control waste and pollution. 								
	• protect and restore ecosystems.								
	support adaptation to the								
A 10 01 44	effects of climate change.	in 20 20 words and	h /2 v 2 =	C mortes)					
	Answer any 3 out of the given 5 questions in 20 – 30 words each (2 x 3 = 6 marks)								
Q. 12	Long wave radiation can								
	penetrate clouds, fog and other	CBSE Book	1	42	2				
	weather disturbances. Work								
0.40	during nighttime as well.								
Q. 13	Depth, Suspended particles,	CBSE Book	1	11	2				
	floating vegetation, Sun angle.								
Q. 14	Raster model divides the entire			65					
	area into regular grids in a specific	CBSE Book	2		2				
	sequence.								
Q. 15	Satellite geometry, Multipath,								
	Clock offset, Orbital error. (Explain	CBSE Book	3	106	2				
	any two)								
Q. 16	The universal address system was								
	developed by NAC Geographic								
	product Inc, Represent the entire								
	earth, using latitude, longitude								
	and altitude information of any	CBSE Book	4	140	2				
	given place. An 8 character								
	universal address can uniquely								
	specify every building in the								
	world.								
Answ	er any 2 out of the given 3 questions	in 30– 50 words eac	h (3 x 2 =	6 marks)					
Q. 17	The distortions in an image due to								
	rotation, curvature, scanner etc.								
	Rectification is done by assigning	CBSE Book	1	20	1.5+1.5				
	ground control points. Explain								
	with diagram.								
Q. 18	Easy to interpret relationship of								
	hidden features. Easy to store,	CDCE Dook	2	92	3				
	update, interpret and manage.	CBSE Book	2	92	3				
	Explain.								
Q. 19	NAVSTAR, GLONASS and GALILEO	CBSE Book	3	113	3				
Answer any 3 out of the given 5 questions in 50– 80 words each (4 x 3 = 12 marks)									
Q. 20	Explain all the keys- Tone, shape,								
	size, pattern, texture, shadow and	CDCE Date!	4	1 31	A				
	association in detail with	CBSE Book	1		4				
II.									
	examples.								
Q. 21	examples. Longwave EMR from 0.1 to 30 cm	CBSE Book	1	42	1+3				

П	1 101 01				
	radar or lidar sensor with its				
	functioning, diagram, and				
	examples.				
Q. 22	Most widely used method to				
	reveal spatial relationships which				
	uses point(nodes), line and				
	polygons to represent all the				
	spatial features and their	CBSE Book	2	63	4
	relationships on earth surface.				
	Explain the features and				
	properties of topological data				
	model.				
Q. 23	This is the system which helps us				
	in locating our self on earth. It		2	87	
	calculates the location by some				
	known reference point. Explain				
	the differences between both.	CBSE Book			1+3
	Geographic- 3D reference system,	CB3E BOOK	2		1+5
	unit of measure is decimal degrees				
	etc.				
	Projected- 2d system. Explain in				
	detail				
Q. 24	To be explained in detail how				
	Geospatial technology is being				
	widely used worldwide to do risk				
	mapping, zoning of affected and	CBSE Book	5	150	4
	non-affected areas and making				
	people and governments aware				
	and pro-active.				