C-4420

**Sub. Code** 93511

#### **DIPLOMA EXAMINATION**

# LAND SURVEY ENGINEERING APRIL 2021 EXAMINATION

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#### APRIL 2020 ARREAR EXAMINATION

#### Non-Semester

#### BASIC OF SURVEYING AND COMPASS SURVEYING

(2019 onwards)

Duration: 3 Hours Maximum: 75 Marks

**Part A**  $(10 \times 2 = 20)$ 

Answer all questions.

- 1. What is the use of surveying?
- 2. Define: Linear measurements.
- 3. What are the instruments used for chaining?
- 4. What is survey station?
- 5. Define: Compass Surveying.
- 6. What is traversing?
- 7. Give the advantages of plant table surveying.

		Part B		$(5 \times 5 = 25)$		
		Answer <b>all</b> q	uestions.			
11.	(a)	Write about unite of m	easurements.			
		Or				
	(b)	Explain the instrumen	ts for chaining.			
12.	(a)	Write about ranging ar	nd its types.			
		Or				
	(b)	List out the equip surveying.	ments required	for chain		
13.	(a)	Explain the principle o	f compass surveyi	ng.		
		Or				
	(b)	Write about filed proce	dure of compass to	raverse.		
14.	(a)	Explain the accessories	s of plane table.			
		Or				
	(b)	Write about resection.				
15.	(a)	Explain: Trapezoidal r	ule.			
		Or				
	(b)	Write about the formula for calculation of cross section area and explain how to compute.				
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8.

9.

10.

What are the accessories of plant table?

Give the formula for cross and sectional area.

Define: Mid-ordinate rule.

Part C

 $(3 \times 10 = 30)$ 

### Answer all questions.

16. (a) Write about classification of surveying.

Or

- (b) Explain the errors in chaining.
- 17. (a) Write about surveying character of work.

Or

- (b) Write a short note on tape correction.
- 18. (a) Explain the types of compass.

Or

(b) Write about prismodial correction for trapezoidal of average end area rule.

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#### **DIPLOMA EXAMINATION**

## LAND SURVEY ENGINEERING APRIL 2021 EXAMINATION

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#### APRIL 2020 ARREAR EXAMINATION

#### Non-Semester

#### **ENGINEERING SURVEYING**

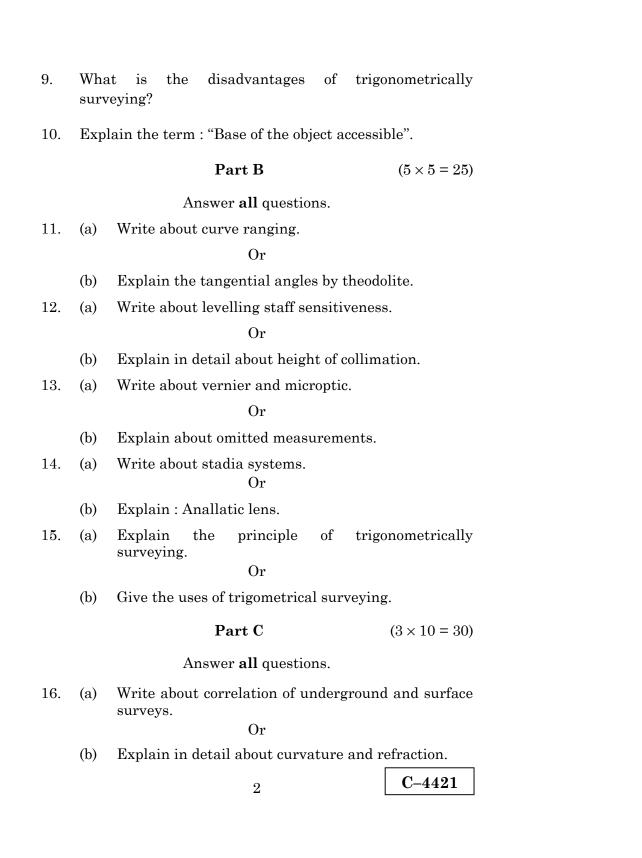
(2019 onwards)

Duration: 3 Hours Maximum: 75 Marks

**Part A**  $(10 \times 2 = 20)$ 

Answer all questions.

- 1. Define: Reconnaissance.
- 2. What is route survey?
- 3. Give the uses of leveling.
- 4. Define: staves.
- 5. What is theodolite?
- 6. Give the uses of Gale's tables.
- 7. Define: Tachometric surveying.
- 8. What is stadia constant?



17.	(a)	Explain	the	description	and	uses	of	the odolite
		surveyin	g.					

Or

- (b) Write about traversing.
- 18. (a) Explain : Subtense bar.

Or

(b) Write about vertical and normal staffing.

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#### **DIPLOMA EXAMINATION**

## LAND SURVEY ENGINEERING APRIL 2021 EXAMINATION

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#### APRIL 2020 ARREAR EXAMINATION

#### Non-Semester

#### MODERN SURVEYING

(2019 onwards)

Duration: 3 Hours Maximum: 75 Marks

**Part A**  $(10 \times 2 = 20)$ 

Answer all questions.

- 1. Give the uses of total station.
- 2. What is distance angle?
- 3. Give the uses of Edm.
- 4. What is area DTM value?
- 5. Write about tripod setup.
- 6. What are the parts of total station?
- 7. Write the uses of remote sensing.
- 8. Define: Electromagnetic energy.

		Answer all questions.				
11.	(a)	Explain the characteristics of total station.				
		$\operatorname{Or}$				
	(b)	Write about and electronic display and data reading.				
12.	(a)	Explain the procedure for co-ordinate measurements.				
		$\operatorname{Or}$				
	(b)	Give the properties of electromagnetic waves.				
13.	(a)	Write about mount instruments tripod.				
		$\operatorname{Or}$				
	(b)	Explain in detail about focus on survey point.				
14.	(a)	Explain the principle of remote sensing.				
		$\operatorname{Or}$				
	(b)	Draw and explain: Electro magnetic spectrum.				
15.	(a)	Explain the components of GPS system.				
		$\operatorname{Or}$				
	(b)	Write about Glonass System.				
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9.

10.

What is GPS?

Write the principle of GPS.

Part B

 $(5 \times 5 = 25)$ 

Part C

 $(3 \times 10 = 30)$ 

### Answer all questions.

16. (a) Write about satellite navigations constellations.

Or

- (b) Explain: Surveying with GPS.
- 17. (a) Write about remote sensing in India.

Or

- (b) Explain the Hardware of GIS.
- 18. (a) Write about data structure of GIS.

Or

(b) Explain: Map overlay.