

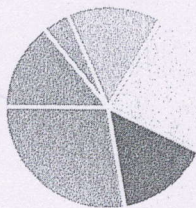
Branch	Civil Engineering	Program	Diploma
Subject Name	Estimation costing and valuation	Semester	V
		Year	2022/Odd
Time: 3 Hour Max. Marks : 70	<ul style="list-style-type: none"> <li>Start writing from 2nd page onwards; don't write on the 1st Page Backside</li> <li>Answer all Questions of Section A (Compulsory)</li> <li>Answer Any Four out of Six of Section B</li> <li>Answer Any Three out of Five of Section C</li> <li>Possession of <u>Mobile Phones</u> or any kind of <u>Written Material, Arguments with the Invigilator or Discussing with Co-Student</u> will come under <u>Unfair Means</u> and will <u>Result</u> in the <u>Cancellation of the Papers.</u></li> </ul>		
Knowledge Level (KL)	K1 : Remembering	K3 : Applying	K5 : Evaluating
	K2 : Understanding	K4 : Analysing	K6 : Creating

CO- Course Outcomes, **KL- Knowledge Level,** **PO – Program Outcome**

CO1	Understand design principles governing steel & reinforced concrete sections.
CO2	Apply the provisions of IS 456:2000 & IS 800:2007
CO3	Analyze steel I sections & reinforced concrete beam & column & shear sections
CO4	Select the most appropriate or economic section under a given condition of load & supports
CO5	Design reinforced concrete sections & steel sections.

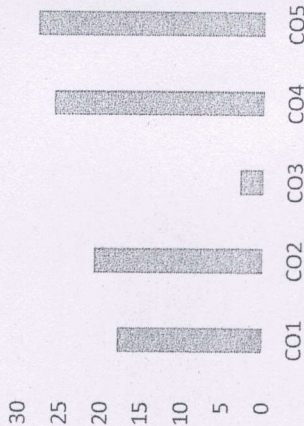
**GRAFICAL REPRESENTATION**

**Bloom's Level wise Marks Distribution**



■ K1 ■ K2 ■ K3 ■ K4 ■ K5 ■ K6

**Course Outcome Wise Marks Distribution**



**Section A (Each question Carry 02 Marks from Q1-i to Q1-x) – 20 Marks'**

Q. N1	QUESTIONS	Marks	COs	KL	PO
i	Define estimating and costing.	2	CO1	K1	PO2
ii	What is Estimation cost.	2	CO1	K1	PO2
iii	What is the Purpose of estimation	2	CO1	K1	PO2
iv	What do you understand by costing	2	CO1	K1	PO2
v	What are the purpose of costing	2	CO1	K1	PO2
vi	Explain 3 M rule.	2	CO2	K1	PO2
vii	Define work allotment.	2	CO2	K1	PO2
viii	Write the Type of estimate	2	CO3	K1	PO2
ix	Define approximate estimate.	2	CO3	K1	PO2
x.	Explain Detailed estimate.	2	CO2	K1	PO2



**Section B (Answer any FOUR out of SIX) - 20 Marks**

(Each question 5 Marks)


Q. No.	QUESTIONS	Marks	COs	KL	PO
1	Explain approximate estimate. What are its types	5	CO1	K2	PO12
2	What do you understand detailed estimate, What are its types explain.	5	CO2	K2	PO2
3	What are the purpose of Administrative approval before initiation of any project.	5	CO3	K4	PO12
4	Define the flowing Carpet area, Floor area, set back area, circulation area.	5	CO5	K5	PO2
5	Calculate the no of bricks in 10m <sup>3</sup> of walls.	5	CO4	K6	PO12
6	For 12mm thick cement plastering 1:6 on 100sqm, new brick work the calculate the quantity of cement required in bags.	5	CO3	K5	PO12

**Section C (Answer any THREE out of FIVE) - 30 Marks-**

(Each question Carry 10 Marks)

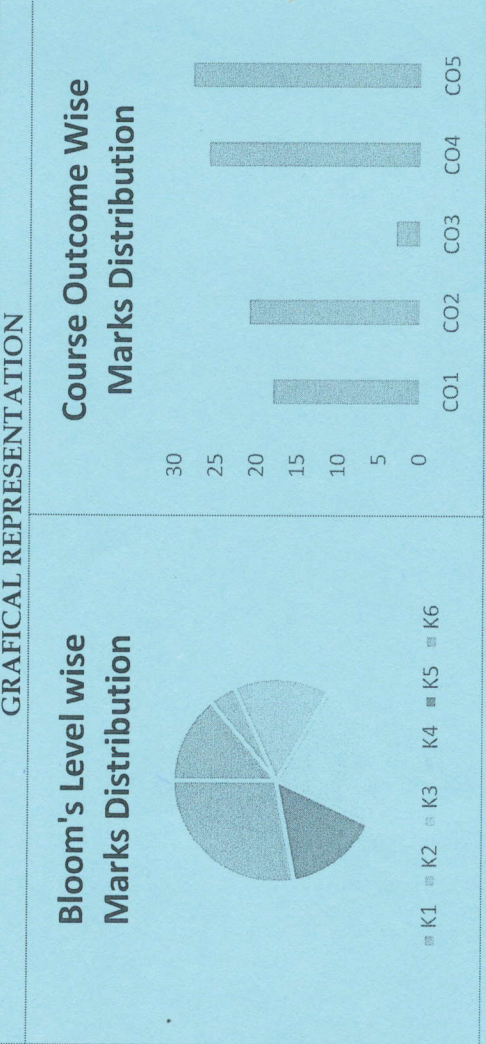
Q. No.	QUESTIONS	Marks	COs	KL	PO
1	The volume of cement required for 10m <sup>3</sup> of brick work in 1:6 cement mortar is approximately equal to how much calculate.	10	CO4	K3	PO12
2	What are the purpose of detailed, approximate estimate also explain its types	10	CO1	K4	PO2
3	What are the types of detailed and approximate explain each type individually.	10	CO2	K5	PO2
4	What are the data required for preparing the estimates	10	CO3	K4	PO2
5	The plan of a building is in the form of square with centre line dimension of outer walls as 14.7mx14.7m if the thickness of wall in superstructure is 0.30m then calculate its plinth area.	10	CO4	K6	PO12



		<b>END TERM EXAMINATION</b> School of Engineering & IT	
Branch	Civil Engineering	Program	Diploma
Subject Name	Estimation costing and valuation	Semester	V
		Year	2022/Odd
Time: 3 Hour Max. Marks : 70	<ul style="list-style-type: none"> <li>Start writing from 2nd page onwards; <u>don't Write on the 1st Page Backside</u></li> <li>Answer all Questions of Section A (Compulsory)</li> <li>Answer Any Four out of Six of Section B</li> <li>Answer Any Three out of Five of Section C</li> <li>Possession of <u>Mobile Phones</u> or any kind of <u>Written Material, Arguments with the Invigilator or Discussing with Co-Student</u> will come under <u>Unfair Means</u> and will <u>Result</u> in the <u>Cancellation of the Papers.</u></li> </ul>		
Knowledge Level (KL)	K1 : Remembering K2 : Understanding	K3 : Applying K4 : Analysing	K5 : Evaluating K6 : Creating

Section A (Each question Carry 02 Marks from Q1-i to Q1-x) – 20 Marks			
Q. N 1	QUESTIONS	Marks	PO
i	Define estimating and costing.	2	PO2
ii	What is Estimation cost.	2	PO2
iii	What is the Purpose of estimation	2	PO2
iv	What do you understand by costing	2	PO2
v	What are the purpose of costing	2	PO2
vi	Explain 3 M rule.	2	PO2
vii	Define work allotment.	2	PO2
viii	Write the Type of estimate	2	PO2
ix	Define approximate estimate.	2	PO2
x.	Explain Detailed estimate.	2	PO2

CO- Course Outcomes,	KL- Knowledge Level,	PO – Program Outcome
CO1	Understand design principles governing steel & reinforced concrete sections.	
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CO5	Design reinforced concrete sections & steel sections.	





**Section B (Answer any FOUR out of SIX) – 20 Marks**

(Each question 5 Marks)

Q. No.	QUESTIONS	Marks	COs	KL	PO
1	Explain approximate estimate. What are its types	5	CO1	K2	PO12
2	What do you understand detailed estimate, What are its types explain.	5	CO2	K2	PO2
3	What are the purpose of Administrative approval before initiation of any project.	5	CO3	K4	PO12
4	Define the flowing Carpet area, Floor area, set back area, circulation area.	5	CO5	K5	PO2
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6	For 12mm thick cement plastering 1:6 on 100sqm, new brick work the calculate the quantity of cement required in bags.	5	CO3	K5	PO12

**Section C (Answer any THREE out of FIVE) – 30 Marks-**

(Each question Carry 10 Marks)

Q. No.	QUESTIONS	Marks	COs	KL	PO
1	The volume of cement required for 10m <sup>3</sup> of brick work in 1:6 cement mortar is approximately equal to how much calculate.	10	CO4	K3	PO12
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4	What are the data required for preparing the estimates	10	CO3	K4	PO2
5	The plan of a building is in the form of square with centre line dimension of outer walls as 14.7m x 14.7m if the thickness of wall in superstructure is 0.30m then calculate its plinth area.	10	CO4	K6	PO12



Branch	Civil Engineering
Program	Diploma
Subject Name	Design of steel & RCC structures.
Semester	V
Year	2022/Odd

Time: 3 Hour  
Max. Marks : 70

- Start writing from 2nd page onwards; **don't** Write on the 1st Page Backside
- Answer all Questions of Section A (Compulsory)
- Answer Any Four out of Six of Section B
- Answer Any Three out of Five of Section C
- IS 456:2000 & IS 800:2007 code book is allowed
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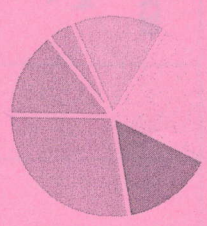
Knowledge Level (KL)	K1 : Remembering	K3 : Applying	K5 : Evaluating
	K2 : Understanding	K4 : Analysing	K6 : Creating

CO- Course Outcomes, **KL- Knowledge Level,** **PO – Program Outcome**

Course Outcomes	CO1	Understand design principles governing steel & reinforced concrete sections.
	CO2	Apply the provisions of IS 456:2000 & IS 800:2007
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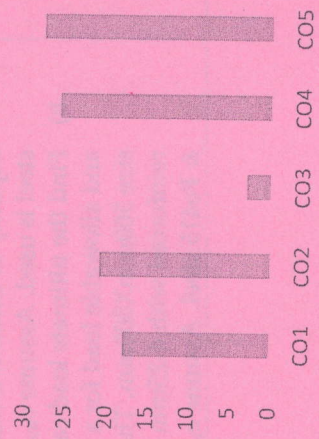
**GRAFICAL REPRESENTATION**

**Bloom's Level wise Marks Distribution**



■ K1 ■ K2 ■ K3 ■ K4 ■ K5 ■ K6

**Course Outcome Wise Marks Distribution**



**Section A (Each question Carry 02 Marks from Q1-i to Q1-x) – 20 Marks**

Q. N1	QUESTIONS	Marks	COs	KL	PO
i	What is an Over Reinforced section in a Beam?	2	CO1	K1	PO2
ii	Write any two assumptions in analysis of Singly Reinforced beam?	2	CO1	K1, K3	PO2
iii	What is the Span/effective depth ratio for Cantilever beam, Simply supported beam, & Continuous beam?	2	CO1	K1	PO2
iv	What is the maximum percentage of steel in a beam as per IS 456:2000?	2	CO1 CO2	K1	PO2
v	Write one formula to calculate area of steel (Ast).	2	CO1 CO2	K1	PO2
vi	Why Doubly Reinforced beams are used in the place of singly reinforced beam? Write the reason.	2	CO1	K1	PO2
vii	Define Bond stress. What is the permissible value of Bond stress for M20 Concrete?	2	CO1 CO2	K1	PO2
viii	Define slenderness ratio. Write the types of columns based on the slenderness ratio.	2	CO1 CO2	K1	PO2
ix	What is Moment of Resistance of a beam? Write the formula to calculate Moment of resistance from	2	CO1 CO2	K1	PO2



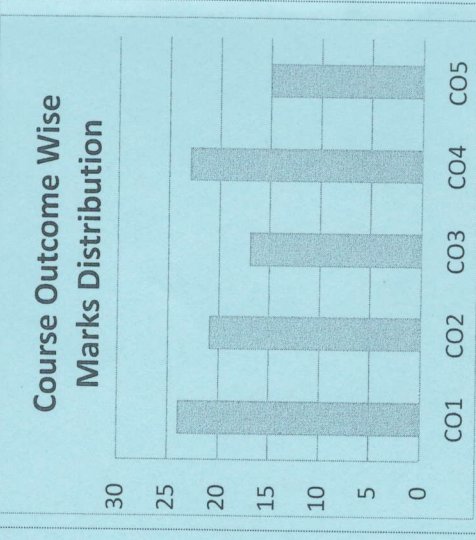
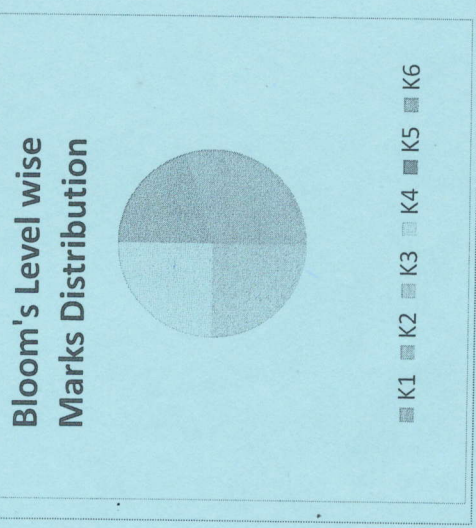
compression side & Tension side of a Singly reinforced beam.		Section B (Answer any FOUR out of SIX) – 20 Marks (Each question 5 Marks)		Section C (Answer any THREE out of FIVE) – 30 Marks- (Each question Carry 10 Marks)	
Q. No.	QUESTIONS	Marks	COs	KL	PO
1	An RCC beam of 200X400mm ( effective), is reinforced with 3-16mm diameter bars of Fe415 steel. Find the ultimate uniformly distributed load which the beam can carry safely over a span of 5 m. take M20 concrete.	5	CO1, CO2, CO5	K1 K2 K3 K4	PO2, PO3
2	Draw the stress & strain diagram for a rectangular section & label it also.	5	CO1, CO2, CO5	K1 K2 K3 K4	PO2
3	An RCC beam 250mmX400mm (effective) is carrying a uniformly distributed load of 16KN/m. the beam is reinforced with 4 bars of 22 mm dia. The clear span of the beam is 4m. Design the shear reinforcement. Use M20 & plain Mild steel bars.	5	CO1, CO2, CO5	K1 K2 K3 K4	PO2, PO3
4	A simply supported RCC beam 250mm wide & 450mm deep ( effective) is reinforced with 4-18mm diameter. Design the shear reinforcement if M20 grade of concrete & Fe415 steel is used & beam is subjected to a shear force of 150 KN at service state.	5	CO1, CO2, CO5	K1 K2 K3 K4	PO2, PO3
5	Write all the codal provisions for the design of columns.	5	CO2	K1 K2	PO2, PO3
6	A short column of 450X600mm(effective) is casted with M25 grade of concrete & reinforced with 4-16mm dia bars of Fe415. Determine the load carrying capacity of column assuming the minimum eccentricity is less than 0.05 times the lateral dimension in both direction.	5	CO1, CO2, CO5	K1 K2 K3 K4	PO2, PO3
Q. No.	QUESTIONS	Marks	COs	KL	PO
1	Design a Singly reinforced beam of effective span 6m to support a total design of 12 KN/m excluding self weight using Limit state method width is limited to 250 mm. Load factor for live load & dead load is 1.5. Use M20 & Fe415 . Design the beam for flexure & shear.	10	CO1, CO2, CO5	K1 K2 K3 K4	PO2, PO4


2	Design a short circular column of grade M30 concrete & Fe500 steel subjected to a service load of 1000 KN. Use Spiral reinforcement. Load factor is 1.5.	10	CO1, CO2, CO5	K1 K2 K3 K4	PO2, PO4
3	Design a column of size 400X550 mm using M20 grade od concrete & Fe415 grade of steel. The column is subjected to an axial load of 1500 KN. The effective length of the column is 3.1 m & is braced against side sway in both the direction.	10	CO1, CO2, CO5	K1 K2 K3 K4	PO2, PO4
4	Write & draw the types of columns based on slenderness ratio, Based on reinforcement & Based on loading.	10	CO2	K1 K2	PO2, PO4
5	a) A reinforced concrete short column is 400mmX400mm and has 4 bars of 20mm diameter. Determine the load carrying capacity of column if M20 concrete & Fe415 steel is used. Assume $e_{min} < 0.05D$ b) Find the ultimate load carrying capacity and allowable load for a short column of size 500mmX500mm. The column is reinforced with 4-25mm dia bars. Use M20 & Fe415 steel. Assume $e_{min} < 0.05D$ .	10	CO4	K1 K2 K3 K4	PO2, PO4



CO- Course Outcomes,	KL- Knowledge Level,	PO – Program Outcome
CO1	Estimate hydrological parameters.	
CO2	Estimate crop water requirements of a command area and capacity of canals.	
CO3	Execute Minor and Micro Irrigation Schemes.	
CO4	Select the relevant Cross drainage works for the specific site conditions.	
CO5	Design, construct and maintain simple irrigation regulatory structures.	

**GRAFICAL REPRESENTATION**





**ARKAJAIN**  
University  
Jharkhand

**END TERM EXAMINATION**  
School of Engineering & IT

Branch	Civil Engineering	Program	Diploma
Subject Name	Water Resource Engineering	Semester	V
		Year	2022/ Odd

Time: 3 Hour  
Max. Marks : 70

- Start writing from 2nd page onwards; don't Write on the 1st Page Backside
- Answer all Questions of Section A (Compulsory)
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Knowledge Level (KL)	K1 : Remembering	K3 : Applying	K5 : Evaluating
	K2 : Understanding	K4 : Analysing	K6 : Creating

Section A (Each question Carry 02 Marks from Q1-i to Q1-xx) – 20 Marks					
Q. N1	QUESTIONS	Marks	COs	KL	PO
i	What do you understand by the term 'Water requirement of crops'?	2	CO2	K1	PO2, PO12
ii	Tell the duration of Rabi season.	2	CO2	K1	PO2, PO12
iii	Name the type of Dam where the crest level is kept lower than maximum expected High Flood Level (HFL).	2	CO3	K1	PO2, PO12
iv	Classify Rainfall based on Intensity.	2	CO1	K1	PO2, PO12
v	Give an example of Overlapping or Annual Crop.	2	CO2	K1	PO2, PO12
vi	Why is Slope Protection Provided?	2	CO4	K1	PO2, PO12
vii	Gravity Dam is an example of which type of Dam (based on materials)?	2	CO5	K1	PO2, PO12
viii	Compare the water level of upstream compare to the downstream side of a reservoir, due to construction of a Dam.	2	CO3	K1	PO2, PO12
ix	What does the term 'Flood 'refer to?	2	CO1	K1	PO2, PO12
x	Define 'Intensity of Irrigation'	2	CO2	K1	PO2, PO12



**Section B (Answer any FOUR out of SIX) – 20 Marks**

(Each question 5 Marks)

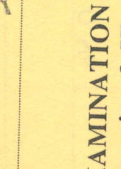
Q. No.	QUESTIONS	Marks	COs	KL	PO
1	Differentiate between (any 2) - a. Crop Period and Base Period b. Duty and Delta of a Crop c. Gross Command Area and Culturable Command Area.	5	CO2	K3	PO2, PO12
2	Explain: a. Cyclonic Precipitation b. Orographic Precipitation	5	CO1	K2	PO2, PO12
3	List some of the uses of Dams.	5	CO3	K2	PO2, PO12
4	State in brief the functions of different components of an Earthen Dam.	5	CO4	K4	PO2, PO12
5	List the forces acting on a Gravity Dam	5	CO5	K2	PO2, PO12
6	Name the various forms of Precipitation. Explain each.	5	CO1	K2	PO2, PO12

**Section C (Answer any THREE out of FIVE) – 30 Marks-**

(Each question Carry 10 Marks)

Q. No.	QUESTIONS	Marks	COs	KL	PO
1	State the advantages and disadvantages of Irrigation.	10	CO2	K2	PO2, PO12
2	What is Runoff? Give the classification of Runoff and explain each term.	10	CO1	K2	PO2, PO12
3	Classify Dams based on following categories and write in brief about each type: a. Based on Use b. Based on Hydraulic Design c. Based on Materials	10	CO3	K4	PO2, PO12
4	Explain Elementary Profile of a Gravity Dam. State the changes made in this profile to cater to the practical needs. Explain with proper diagram.	10	CO5	K3	PO2, PO12
5	Enumerate the different modes of failure of Earthen Dam.	10	CO4	K3	PO2, PO12





END TERM EXAMINATION  
School of Engineering & IT

Branch: Civil Engineering  
Program: Diploma  
Semester: 5th  
Year: 2022/Odd

Subject Name: Traffic engineering.

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- Answer all Questions of Section A (Compulsory)
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Time: 3 Hour  
Max. Marks : 70

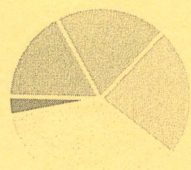
Knowledge Level (KL)	K1 : Remembering	K3 : Applying	K5 : Evaluating
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CO- Course Outcomes, KL- Knowledge Level, PO – Program Outcome

CO1	Upon completion of this course, students will be able to understand the different conventional and unconventional manufacturing methods employed for making different products.
CO2	Upon completion of this course, the students will have an overview of the mechanical behavior and application of tools used in machining purpose.
CO3	Upon completion of this course, the students will be able to examine the different Techniques involved in traditional machining process.
CO4	Students will be able to understand the manufacturing process of complex shape products.
CO5	Upon completion of this course, students will analyze the basic components of Lathe machine, Milling Machine, Drilling machine, Grinding Machine and different tools handled.

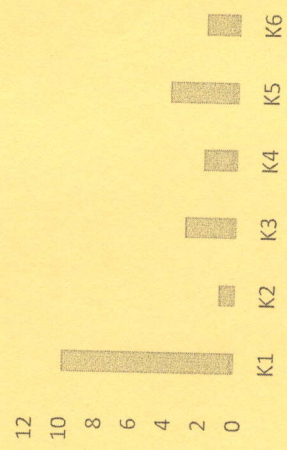
**GRAFICAL REPRESENTATION**

Bloom level wise distribution



■ CO1 ■ CO2 ■ CO3 ■ CO4 ■ CO5 ■ CO6

Course outcome wise distribution



**Section A (Each question Carry 02 Marks from Q1-i to Q1-x) – 20 Marks**

Q. N1	QUESTIONS	Mar ks	COs	KL	PO
i	Define Traffic volume.	2	CO1	K1	PO2
ii	What do you understand by traffic Density	2	CO2	K1	PO2
iii	Define traffic engineering.	2	CO1	K1	PO12
iv	How you explain road user characteristics.	2	CO3	K1	PO2
v	Write the Scope of traffic engineering	2	CO1	K1	PO12
vi	Define traffic engineering studies.	2	CO3	K1	PO2
vii	Define traffic volume characteristics.	2	CO2	K1	PO12
viii	Objectives of traffic volume studies.	2	CO3	K1	PO2
ix	Methods of classified traffic volume studies	2	CO1	K1	PO12
x	How you will define spot speed studies	2	CO5	K1	PO12



**Section B (Answer any FOUR out of SIX) – 20 Marks**

(Each question 5 Marks)

Q. No.	QUESTIONS	Marks	COs	KL	PO
2	What do you understand by passenger car unit Explain briefly	5	CO2	K2	PO2
3	Define the design service volume recommended service volume for single lane road.	5	CO3	K3	PO12
4	What do you understand by traffic regulation and control	5	CO5	K4	PO2
5	Define traffic sign and explain types of sign	5	CO4	K3	PO12
6	Explain regulatory, warning and informative sign briefly.	5	CO3	K2	PO2
7	Explain traffic control devices how you will control traffic suggest some methods.	5	CO4	K5	PO12

**Section C (Answer any THREE out of FIVE) – 30 Marks-**

(Each question Carry 10 Marks)

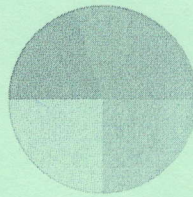
Q. No.	QUESTIONS	Marks	COs	KL	PO
8	Define traffic signal also explain advantage and disadvantage of traffic signal.	10	CO2	K3	PO12
9	What do you understand by Traffic islands also explain different type of traffic islands	10	CO4	K4	PO12
10	Define rotary intersection and what are the design factors of rotary intersection.	10	CO5	K5	PO2
11	Explain warning sign informometry sign and regulatory sign with Sign.	10	CO3	K6	PO12
12	Estimate the Theoretical capacity of a traffic lane with one way traffic flow of a stream speed of 40kmph. Assume the average space gap between vehicle follow the reaction $sg=0.278Vt$ where $v$ is the stream in kmph, the average reaction time =0.7sec. Assume Avg/length of vehicle =5.0m	10	CO1	K6	PO12



CO1	Identify various requirements for green building.
CO2	Use different steps in environmental impact assessment.
CO3	Relate the construction of green building with prevailing energy conservation policy and regulations.
CO4	Supervise the construction of green building construction using green materials.
CO5	Focus on criteria related to particular rating system for assessment of particular Green building.

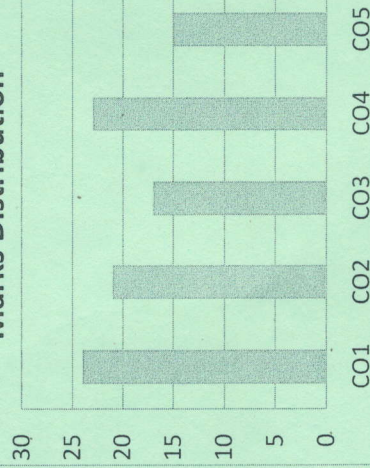
**GRAFICAL REPRESENTATION**

**Bloom's Level wise Marks Distribution**



■ K1 ■ K2 ■ K3 ■ K4 ■ K5 ■ K6

**Course Outcome Wise Marks Distribution**



Branch	Civil Engineering	Program	Diploma
Subject Name	Green Building & Energy Conservation	Semester	V
		Year	2022/ Odd

- Start writing from 2nd page onwards; don't Write on the 1st Page Backside
  - Answer all Questions of Section A (Compulsory)
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- Time: 3 Hour  
Max. Marks : 70

Knowledge Level (KL)	K1 : Remembering	K3 : Applying	K5 : Evaluating
	K2 : Understanding	K4 : Analysing	K6 : Creating

**Section A (Each question Carry 02 Marks from Q1-i to Q1-xx) – 20 Marks**

Q. N1	QUESTIONS	Marks	COs	KL	PO
i	When and where was the practice of preparing EIA first initiated in the world?	2	CO4	K1	PO2
ii	List the General details that an EIA report should contain.	2	CO5	K1	PO2
iii	What is LEED?	2	CO2	K1	PO2
iv	Mention the LEED certification levels.	2	CO2	K1	PO2
v	How does green building reduce the overall impact of built environment on human health and natural environment?	2	CO1	K1	PO2
vi	Name some sources of Renewable Energy.	2	CO3	K1	PO2
vii	Name some sources of Non –Renewable Energy	2	CO3	K1	PO2
viii	Name the stages in Environmental Clearance Process for new projects.	2	CO5	K1	PO2
ix	Define Green Building.	2	CO1	K1	PO2
x	When did MoEF, GoI issued its first notification regarding the need of submission of EIA before execution?	2	CO4	K1	PO2



**Section B (Answer any FOUR out of SIX) – 20 Marks**

(Each question 5 Marks)

Q. No.	QUESTIONS	Marks	COs	KL	PO
1	Write a short note on LEED Rating System.	5	CO2	K2	PO2
2	List the Role of Environmental Engineer/Consulting Firm in obtaining Environmental Clearance for a Project.	5	CO5	K3	PO2
3	Write in brief about the methodology of Preparing EIA?	5	CO4	K3	PO2
4	Write about 'Transferability of Environmental Clearance'.	5	CO5	K2	PO2
5	Write in brief about India's EIA Notification, 1994.	5	CO4	K2	PO2
6	What do you understand by Zero Energy Buildings?	5	CO1	K2	PO2

**Section C (Answer any THREE out of FIVE) – 30 Marks-**

(Each question Carry 10 Marks)

Q. No.	QUESTIONS	Marks	COs	KL	PO
1	State the features which make a building 'green'.	10	CO1	K3	PO2
2	Enumerate the advantages and disadvantages of Zero Energy Buildings.	10	CO1	K4	PO2
3	Write in brief about the stages in Environmental Clearance process for New Projects under 2006 EIA Notification.	10	CO5	K3	PO2
4	Explain 'Validity of Environmental Project'?	10	CO5	K4	PO2
5	Elaborate India's EIA Notification 2006.	10	CO4	K4	PO2