

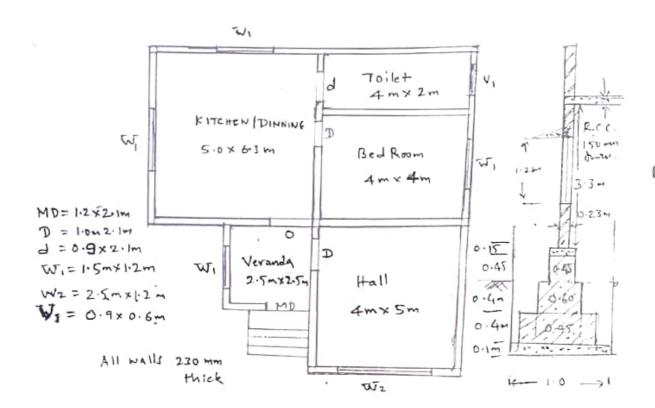
# SESSION: 2021-2022 (ODD SEMESTER)

# ASSIGNMENT-1

Batch	2018-2022
Year/Semester/Section	IV/ VII/A
Course Code/Title	18CV71/ Quantity Surveying and Contracts Management
Name of the Course In charge	Sushma M & Amrutha Dhiraj

Assignment No: 1 Date of Issue: 12/10/2021		Total marks: 15 Date of Submissi	on: 29/	10/2021
Sl.	Assignment Questions	K Level	CO	Marks
No.	Estimate the quantity and cost of the following by long wall short wall method for the plan and section shown in fig.1:  a. Earthwork excavation for foundation in hard soil at Rs. 380/m <sup>3</sup>	K3 Applying	COI	2
2.	Estimate the quantity and cost of the following by long wall short wall method for the plan and section shown in fig.1:  a. Plain cement concrete 1:3:6 for bed of the foundation at Rs.  3000/m³  K3  Applying		COI	2
3.	Estimate the quantity and cost of the following by long wall short wall method for the plan and section shown in fig.1:  a. SSM in CM 1:6 for footings and basement foundation at Rs. 2200/m <sup>3</sup> K3 Applyin		COI	2
4.	Estimate the quantity and cost of the following by long wall short wall method for the plan and section shown in fig.1:  a. CC Plinth 1:2:4 at Rs. 3900/m <sup>3</sup> K3 Applying		COI	2
5.	Estimate the quantity and cost of the following by long wall short wall method for the plan and section shown in fig.1:  a. BBM walls with CM 1:6 for superstructure at Rs.4500/m <sup>3</sup> b. Determination of total cost abstract of estimate	K3 Applying	CO1	2
6.	Explain Tender Notice. List the essential information given along with tender notice.	K2 Understanding	CO2	I
7.	What are the types of contracts? Explain any three types of contracts.	K2 Understanding	CO2	1

8,.	Explain briefly about administrative approval and technical sanction.	K2 Understanding	CO2	1
9.	List the advantages and disadvantages of Lump sum contract.	K1 Remembering	CO2	1
10.	Explain the following terms: (i) EMD (ii) Security deposit	K2 Understanding	CO2	1



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#### Sushma M/ Amrutha Dhiraj

#### Note:

1. Kindly mail the answer scripts to e-mail ID: qscm.2021@gmail.com

2. Name the file as USN- Assignment 1

Head-of the Department

Dr. Vijaylakshmi Akefia

K.S. School of Englishing a "Frangement Bangalore-LDD Les



SESSION: 2021-2022 (ODDSEMESTER)

#### ASSIGNMENT-1

Batch	2018-2022
Year/Semester/Section	IV/VII/Civil Engineering
Course Code/Title	18CV732/ Air Pollution and Control
Name of the Course In charge	Dr. Vyshali

Total marks:15 Assignment No: 1 Date of Submission: 8-11-2021 Date of Issue: 22-10-2021 Mar K CO Sl. Assignment Questions ks Level No. K2 Define air pollution and write a note on primary and secondary air 2 COL 1. Understanding pollutants. K2 2 COL Explain the following: i. Aerosols ii. Dust iii. Mists iv. Aldehydes 2. Understanding 2 COL Define the inversion and explain the types of inversion. 3. Understanding Explain the following with respect to leaf damage due to air pollution: 2 CO1 4. Understanding ii. Chlorosis iii. Abscission iv. Epinasty i. Necrosis K2 2 Explain the photochemical smog adding with chemical reactions. COL 5. Understanding K2 Define the temperature lapse rate and explain the atmospheric stability. 1 CO2 6. Understanding K2 Write a note on surface wind direction and wind speed recorder. CO2 1 7. Understanding Explain the following: i. Pibals ii. Tetroons iii. Radio and radar K2 8. CO2 1 iv. Smoke trails Understanding K2 With a neat sketch explain the plume behaviour. 9. CO2 1 Understanding K2 Discuss the wind rose diagram. 10. CO2 1 Understanding

Course In charge

Head of the Department

Professor & Head Deat, of Child Engineering

K.S. Group of instrutions

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SESSION: 2020-2021 ( GDD SEMESTER)

#### ASSIGNMENT-1

2021-2022
IV/VII/A
Urban Transport Planning/ 18CV745, 17CV751, 15CV751
Mrs Saisushma B A

Assignment No: 1 Total marks:15

Date of Submission: 08-11-2021

Sl. No.	Assignment Questions	K Level	CO	Marks
1.	Define urbanization? What are the causes of urbanization?	K1 Remembering	COI	5
2.	Explain the scope of urban transport planning.	K2 Understanding	COI	5
3.	Define "Systems Approach". Explain with flow diagram the systems approach to transport planning.	K2 Understanding	CO1	5
4.	Draw a flowchart of various stages in urban transport planning process.	K2 Understanding	COI	5
5.	Write a note on the following  a) Metro trains b) LRT	K2 Understanding	CO1	5
6.	Define "Zone". Explain the different factors considered in dividing the whole area into zones.	K2 Understanding	CO2	5
7.	Define the external cordon line. What factors should be given due weightage in the selection of external cordon line.	K1 Remembering	CO2	5
3.	Draw a neat sketch of basic movements in a transportation survey.  What are the surveys conducted?	K2 Understanding	CO2	5

9.	Explain how road side interview is carried out.	K2 Understanding	CO2	-5
10.	What is the information that is collected on travel pattern and house hold characteristics during home interview survey?	K1 Remembering	CO2	5

Course In charge

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Headforthe Department Dept. of Civil Engineering K.S. Group of Institutions K.S. School of Englissing & Management Bangarore-560 002.



# K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BENGALURU-560109

#### DEPARTMENT OF CIVIL ENGINEERING

SESSION: 2021-2022 (ODD SEMESTER)

#### ASSIGNMENT-2

Batch	2018-2022
Year/Semester/Section	IV/ VII/A
Course Code/Title	18CV71/ Quantity Surveying and Contracts Management
Name of the Course In charge	Sushma M & Amrutha Dhiraj

Date	nment No: 2 of Issue: 16/12/2021		Total marks:15 Date of Submiss	ion: 24/	12/2021
SI. No.		at Questions	K Level	co	Mark
1	Write a note on: (i) Perform and equipment advances.	K2 Understanding	CO2	1	
2.	Write a note on: (i) Bread damages and Bonus.	K2 Understanding	CO2	1	
3.	What is a measurement bo followed in recording measurer	K2 Understanding	CO2	I	
4,	Explain termination of contrac	K2 Understanding	CO2	1	
5.	Write a note on Nominal Mus	K2 Understanding	CO2	1	
	Chainage  14  15  16  17  18  19  20  21  22  The road formation is proposed than is 30m. Side slope 1.5:1	rth work for a road of 12m data using mid-section formula.  RL of GL  108.60  109.25  109.40  108.85  107.25  106.80  107.15  107.20  I at uniform following gradient at Chainage 14. Length of one in cutting and 2:1 in banking, and cutting are Rs. 180/m³ and	K3 Applying	СО3	2

	longitudinal se	g. Formation etion of the pro	width of ro	es 1:1 in cutting and ad is 12m. Drav	s 12m. Draw		2
	Chainage		(m)	FL (m)			
	70	88	3.10	88.50			
	71	87	7.74				
	72		7.80				
	73		3.20	Raising Gradient 1 in			
	74		0.40				
	75		.75	100			
	76		0.20				
8.		ost of earthwar	.98	of the road from			
		cutting Rs. 120	)/m <sup>3</sup>	of the road from oad is 10m. Side The cost filling is	K3 Applying	CO3	2
	0		GL (m) R	L of FL (m)			
	40		0.6	101			
	80	100	0.2				
	120		0.2				
	160		0 -	Raising			
	200		1.9	Gradient 1 in			
	240		2.4	400			
	280		2.5				
9.	400m length from is 10m, side slo	pes are 2:1 in b	g data: Forma anking and 1.:	portion of a road tion width of road 5:1 in cutting	K3 Applying	CO3	2
	Station	Distance	RL of	RL of			
	25	( <b>m</b> ) 1000	ground	formation			
	26	1040	51.0	52.0			
	27	1080	50.9				
	28	1120	50.5 50.8	-			
	29	1160					
	30	1200	50.6	Downward			
	31	1240	50.7	gradient of 1			
	31	1280	51.2	in 200			
			51.4				
	32	1370	51.3				
	32 33	1320					
	32	1320 1360 1400	51.0 50.6				

ft 1 chain is 108 and th 50 up to the 4 <sup>th</sup> Chainag downward. Formation v	e road is in downward gradient e and then gradient changes to vidth of road is 10m. Side slopes	K3 Applying	CO3	2
Chainage	RL of ground			
0	106	1		
1	106.6			
2	106.44			
3	106.9			
4	106.42			
5	105.3			
6	106			
7	105.1			
8	105.62			
Q	105			
	a proposed road are give at 1st chain is 108 and the 50 up to the 4th Chainag downward. Formation v I: V). Length of chain is  Chainage  0  1  2  3  4  5  6  7  8	0 106 1 106.6 2 106.44 3 106.9 4 106.42 5 105.3 6 106 7 105.1 8 105.62	K3	CO3

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Course In charge

Sushma M/ Amrutha Dhiraj

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Head of the Department

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Dr. Vijaylakshmi Akella

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# K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE - 560109

### DEPARTMENT OF CIVIL ENGINEERING

### SESSION: 2021-2022 (ODDSEMESTER)

#### ASSIGNMENT-II

Academic Year	2021-2022
Batch	2018-2022
Year/Semester/Section	3 <sup>ol</sup> /VII / Civil Engineering
Course Code-Title	18CV732-Air Pollution and Control
Name of the Course In charge	Dr. Vyshali

Date	nment No: 2 of Issue: 3-12-2021	Total man		2021
Sl. No.	Assignment Questions	K Level	со	Marks
1.	Define wind speed and explain the factors affecting the wind speed.	K2 Understanding	CO2	1
2.	What is a turbulence? Discuss the classification of the turbulence.	K2 Understanding	CO2	1
3.	Write a note on causes of the turbulence.	K2 Understanding	CO2	1
4.	Define the following: i. Plume rice ii. Stack height	K1 Remembering	CO2	1
5.,	Explain the empirical formula of Moses and Carson.	K2 Understanding	CO2	1
6.	Write a note on preliminary considerations and stages of sampling.	K2 Understanding	CO3	2
7.	Explain the following: i. Duration of sampling air ii. Location of sampling sites.	K2 Understanding	CO3	2
8.	Explain the isokinetic sampling in case of stack sampling.	K2 Understanding	CO3	2
9.	Discuss the Procedure for particulate matter sampling.	K2 Understanding	CO3	2
10.	Explain the following: i. Representative sample ii. Traverse point.	K2 Understanding	CO3	2

Course In charge

Head of the Department

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### SESSION: 2021-2022 (ODD SEMESTER) ASSIGNMENT-2

#### Batch 2021-2022 Year/Semester/Section IV/VII/A Urban Transport Planning/ 18CV745, Course Code/Title 17CV751, 15CV751

Mrs Saisushma B A

Assignment No: 2 Date of Issue: 17-12-2021

Name of the Course In charge

Total marks:15

Date of Submission: 24-12-2021

S1. No.	Assignment Questions	K Level	CO	Marks
1.	Explain the inventory of transport facilities.	K2 Understanding	CO2	5
2.	Summarize the interdependence of land use and traffic.	K2 Understanding	CO2	5
3.	What is sampling? Discuss the various types of sampling.	K2 Understanding	CO2	5
4.	Discuss on expansion of data from samples.	K2 Understanding	CO2	5
5.	Explain the inventory of land use and economic activities,	K2 Understanding	CO2	5
6.	Outline the factors governing trip generation and attraction rates.	K2 Understanding	CO3	5
7.	Define category analysis. What are the assumptions to be made category analysis?	K1 Remembering	CO3	5
8.	Explain home based and non-home based trips.	K2 Understanding	CO3	5

9,	Solve the bel trips generate respectively	ow matr ed in zon	ix by ave ies A, B o	rage fa & C ar	ector method. The	future 20		
		O/D	A	В	C	КЗ	CO3	5
		A	60	100	200	Applying		
		В	100	20	30			
		C	200	300	20			
	generated in 2				od. The future tri			
		zones A,			od. The future tri			
10.	generated in z respectively.	D A	B, C & I	) are 8	od. The future tri 0, 114, 48 and 38	КЗ	CO3	5
10.	generated in z respectively.	D A	B, C & I	C C	od. The future tri 0, 114, 48 and 38		CO3	5
10.	generated in z respectively.	D A	B, C & I	C 12	D 18	КЗ	CO3	5

Course In charge

Head of the Department
Department
K.S. School Language Head of the Department
Bangalore-2000.4



SESSION: 2021-2022 (ODD SEMESTER)

#### ASSIGNMENT-3.

Batch	2018-2022
Year/Semester/Section	1V/ VII/A
Course Code/Title	18CV71/ Quantity Surveying and Contracts Management
Name of the Course In charge	Sushma M & Amrutha Dhiraj

	gnment No: 3 of Issue: 14-01-2022	Total marks:15 Date of Submission: 24-01		
Sl. No.	Assignment Questions	K Level	CO	Mark
1	Write the specifications for the following:  a. Earth work excavation in foundation  b. Burnt Brick masonry in CM 1.6	K1 Remembering	CO4	2
2	Write the specifications for the following:  a. RCC 1.2.4 for roof slab b. Plastering in CM 1.6.	K1 Remembering	CO4	2
3	Calculate the rate analysis for the following:  a Random rubble masonry in CM 1:6 in foundation b Brick work in CM 1:6 for super structure	K3 Applying	CO4	2
4	Calculate the rate analysis for the following:  a 12mm thick plastering in CM 1:3  b RCC work for beam in CC 1:1.5:3	K3 Applying	CO4	2
5	Calculate the rate analysis for the following:  a. Cement Pointing 1.2	K3 Applying	CO4	2
6	Define (i) Obsolescence (ii) Mortgage (iii) Scrap Value (iv) Market Value Leasehold property.	K1 Remembering	CO5	1
7	Explain (i) Sinking fund (ii) Depreciation.	K2 Understanding	CO5	ı
8	What is valuation? Explain the purpose of valuation.	K2 Understanding	CO5	1
9	A person has purchased a plot of land costing Rs. 8,00,000/- and has constructed a building there on at a total cost of Rs. 20 lakh including water supply, sanitary and electrical installation etc. Allowing a net return @ 7% on the cost of construction and @ 5% net return on the cost of land, calculate the standard rent of the property with the following	K3 Applying	CO5	1

	data: (i) Sinking fund on 4% basis for the future life of 75 years = 0.0022 (ii) Annual maintenance 0.5% of the cost of construction (iii) Municipal taxes and other outgoings @28% of the net return on building.			
10	A building is situated by the side of a main road. The built-up portion is 20mx 15m. The building is of first-class type and provided with water supply, sanitation, and electric fitting. Age of the building is 30 years. Determine the value of the property. Area of land on which building stands is 500m <sup>2</sup> . Assume plinth area rate as Rs 20,000/m <sup>2</sup> , life of the building 100 years and cost of land. Rs. 2,500/m <sup>2</sup> .	K3 Applying	CO5	Î

Course In charge.

Sushma M/ Amrutha Dhiraj

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Head of the Department

Professor & read

Depitaviakshmi Akella

K.S. Group of institution

K.S. School of Engineering & Management

Bangalore-500 002.

#### Note:

1. Kindly mail the answer scripts to e-mail ID: qscm.2021@gmail.com

2. Name the file as USN- Assignment 3



# K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE - 560109

# DEPARTMENT OF CIVIL ENGINEERING

### SESSION: 2021-2022 (ODDSEMESTER)

#### ASSIGNMENT-III

Academic Year	2021-2022
Batch	2018-2022
Year/Semester/Section	3 <sup>rd</sup> /VII / Civil Engineering
Course Code-Title	18CV732-Air Pollution and Control
Name of the Course In charge	Dr. Vyshali

	nment No: 3 of Issue: 13-01-2022	Total mar Date of Submission		2022
SI. No.	Assignment Questions	K Level	co	Marks
1.	With a <b>neat sketch explain</b> the principle, construction and working of a settling chamber.	K2 Understanding	CO4	2
2.	Explain the following with neat sketches: i. Baffle type separator ii. Louvre type separator iii. Dust traps	K2 Understanding	CO4	2
3.	With a neat sketch explain the cyclone separator.	K2 Understanding	CO4	2
4.	Discuss the operating mechanism of electrostatic precipitator.	K2 Understanding	CO4	2
5.	Explain types of scrubbers.	K2 Understanding	CO4	2
6.	Explain the following: i. Exhaust emissions ii. Crank-case emissions iii. Evaporative emissions	K2 Understanding	CO5	2.
7.	Discuss the control of exhaust emissions.	K2 Understanding	CO5	2
8.	Explain the types of noise.	K2 Understanding	CO5	2
9.	Discuss the effects of noise pollution.	K2 Understanding	CO5	2
10.	Discuss the control and preventive measures for noise pollution	K2 Understanding	CO5	2

#### Note:

- Convert the assignment answer script to PDF format and put your USN number as your file name.
- 2. Send the file to the following E-Mail Id: vyshali@kssem.edu.in

Course In charge

Head of the Department

\* Professor & Mead \* Dept. of Civil Engineering K.S. Group of Inal Itulians

-K.S. School of Engineering & Management - Bangalore-530,552



SESSION: 2021-2022 (ODD SEMESTER) ASSIGNMENT-3

Batch	2021-2022
Year/Semester/Section	IV/VII/A
Course Code/Title	Urban Transport Planning/ 18CV745, 17CV751, 15CV751
Name of the Course In charge	Mrs Saisushma B A

Assignment No: 3 Date of Issue: 14-01-2022

Total marks:15

Date of Submission: 24-01-2022

Date	of Issue: 14-	-01-2022		Date of Submiss	sion: 24-	01-2022
SI. No.		Assignment	Questions	K Level	СО	Marks
1.	Write a no	te on opportunity models	in trip distribution analysis.	K1 Remembering	CO4	5
2.		List the different synthetic methods of trip distribution. Explain gravity model in detail.			CO4	5
3.	Define mo	dal split. Explain the vari	ious factors affecting modal split.	K2 Understanding	CO4	5
4.		ow chart for pre distribu ne the recent developmen	K2 Understanding	CO4	5	
		The total trips produced in and attracted to the three zones A, B & C of a survey area in the design year are tabulated below				
	Zone	Trips produced	Trip attracted			
	A	2000	3000			
	В	3000	4000	***		
5.	C	4000	2000	K3	CO4	5
	proportional which is un B & C is ki	I to the second power of iformly 20minutes, if the	the travel time between zones, trip interchange between zones ate the trip interchange between B.	Applying		

b.	Define traffic assignment. What are the purpose applications of traffic assignment.	K1 Remembering	CO5	5
-,	What are the traffic assignment techniques' Explain any two in detail	K2 Understanding	CO5	5
8.	Write a note on land use planning model	K2 Understanding	CO5	5
٥.	Write a short note on Lowry land use model	K2 Understanding	CO5	5
10.	Draw a flow chart of land use and transportation	K2 Understanding	CO5	5

Course In charge

Head of the Department

K.S. 30