	Page No Date
7)	Dooss and windows: Chankbats (Frames) shall be
	of seasoned deak wood smutters shall be of 3 cm
-	thick teak wood panelling REass Fittings Shall
	be provided. Doors and windows shall be varmished
	OR painted two couts
<u>د.</u>	
	Be Ashestos coment and Finished painted All samiture,
	water supply and electricar Fittings share be disst
	ciciss materials
5	
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• •	
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 1
Manoj	Teacher's Signature :

Page No. 33 Date \_\_\_\_ prati specification For Reinforced Cement Q.3 Concreting in 1:1.5:2 CC PROPORTION :- The proportion of the materials shall be 1:1.5:3 I. e I Part of Cement 1-5 parts of sand and 3 PURTS OF ATTRETATE by Volume <u>(11)</u> materials coment & cement shall be Fresh Portions cement configming to IS-269 up to date og Rapid hardening cement or high furnace sing coment or high anning coment of approved specifications. The minimum Compressive strength of BRdinuly Postional cement as per IS:269 Should be 17-5 N/mm2 DEFine aggregate (sand): The fine aggregate shall CONFORM to IS: 383 UP-to-date It Shall be clean Shakp, half and anguins graving and shall pass HURONGL 4-F5 mm I-S sieve It should be Free trom Lust, dist , ve set able and ogganic matters. Sea seads Sugar not be used. River or pit sand Snau be used (3) COULCE USAREQUIE :- COULCE USA RESOLE Show be Mark broken Stone of greenite Or similar stone fr Chall be hald. Strong, purche and bearse It Should Le free From Soft Preidule, thim, Flat, clongates FLARP Particles. Ft Should be clean and free from Luch, diet, vereinble and organic mutters houses Specialis meintomed the size of course aggregate <u>Span 8 Rabeb Sowon Cent Snull be aptaimet</u> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 Manoj Teacher's Signature :

Page No. 4-0 Date \_\_\_\_\_ I'M a 5 mm sauce mesn sieve O Water 2- water used Small be Clean and Reasonable EROE FROM I'MENLIOUS QUANTITIES OF deleterious Materials Superals pills race'ss rackaries, Smith and vegetuble growth (5) Steel Reinforcement 2- steer reinforcing bens Shall be of mild steel (Feggo) of migh pield Steenget Lotormed Louis (HYSD-FEGIS, Fesoo) OR Standaree specifications. Et Shard be Face From Corresion, loose Aust scales oi's grease, paint etc limichmer destrop 08 seduce band the steer bout shall be sound and capable of being Least without Frauture 7 8 10 11 14 15 Manoj Teacher's Signature : \_

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	Date
Q	Give cremescue specification of Fisch class beice
	MUSOMULT C-M 126 328
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G	masesials
	BRICKS - BRICKS SHALL be Standared size 19×9×9 cm
	ern First class of standared specifications. They Shall
	be seguices in sumper and size with sharp eages and
	CORNELS. THEY SHALL EMILL CLEUR SIMPLING SOUTH ON
	being Struck There shall be of uniterm deep red
	OR COPPER COIDNE FREE FROM CRUCKS, Chips, EFFLORESCENCE
	FIGHS and LUMPS OF CONY KIND DEVE BRICK Shall ones
	absorb more from 20 y of water be theirs weight
	when immersed in water For 24 hours. The brick
	Should mat braisen when dropped Figt on hard
	groum & from 1 m height
Ð	cement :- cement sum be tresh Portional cement Contieming
	to IS-269 UP-to-bailo as pupils harebening Cement 03
$\sim$	blast Furnace slag Cementor han alumina cement
	of approved specifications. the minimum compressive
	Strength of Ordinals Posticiand coment as per
	IS: 2.69 Should be 17-5 N/mm2-
-	
3	Fine aggregate (same) :- The Fine aggregate Share
	Batism to FS: 383 UP- to- bate St Shall be clean, sharp
	has and anguias gearing and shar pass through
• •	4-75 mm J.S. Sieve , It should be free From dust,
	bisk, vegetable and pequatic matters seasemb shall
	not be used. River or pipsent shall be used
- Manoj <sup>®</sup>	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 Teacher's Signature :

	Page No.
	Date
**	Water - Water used Shall be Clean and reasonably
	ree From in theions quantities of deleterions
	materials such as oils, action, enkanies, earths
	amb veretable Prowth, Generall' Portable water
	Shall be used
<u> </u>	
	martars, mixing the ingredients in the specified
	Pastion al: 62 in the care of coment mostas the nonit of
$\sim$	measurement For comeant Shall be a bar of comeant
	and this shall be taken as 0-035 chm samb in specified
r 	pastion shall be measured in bases of suitable size
	33 cm 125 cm × 40 cm. Sund Shall be meallich on the
	beca's of ble voume
	muterious of mortus Shall be Tissi mixed dep
	to have a hartorm colone and clean maconaly
	prostorm and then mixed by adding clean watch slowly
	and graduaux to have workable consistence and
	mixed thoronomic be throng of least three times
	FRESHIP MILLS MORTAR SHALL be used with im somionnes
	time after adding water
ciùs	Coaking of blicks 2
	All bricks shall be thorongly soaked in water
	by submerging freming clean water For a perior of
	12 hours immediately beforeuse
eiv2	Laring
	RAICKE Share be laid in ENglish bomb unless
	Athenwise specified. Every coulse from be trung
	hosizontare and ware gran be trive hosizontal
۵۵٬۰۰۰ <sup>۳</sup> ۰۰ <sup>۲</sup> ۰۰ ۲۰ <sup>۰</sup> ۲۰۰۰ ۲۰۰ ۲۰۰ ۲۰۰ ۲۰۰ ۲۰۰ ۲۰۰ ۲۰۰ ۲۰۰	mand in Plymp. Vertical Toimts of consecutive Course
Mianol <sup>®</sup>	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
an van de fan	Teacher's Signature :

Page No. Date \_\_\_\_\_ messar Joint Shan not exceed 5 mm in thickness and Joimes Shan be Fune Fined with mostal con curimy The brickwork chill be cured For a period of utleast 10 days after laring . At the end of dar work the tops of wans shall be Floodes with Wares by making small weak mostar edging to Contain atleast 2-5 cm beep water. (3) scattording Necessary and suitable scattondias shaw be PROVIDED to Factilitate the coonstanction of paick way Vii medinkement BRICKWORK Small be measured in cum Marioj°. 10 15 17 Teacher's Signature : \_

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œ.	PLASTERING in HAUS Specification
	matesials
	coment: coment Shan be tresh Porticiant coment
	conterming to IS-268 up to date Or Rapis harbening
	cement or blast Furnance slar coment or high
<u></u>	aumina cement of appeared specifications
	The minimum compressive strength of orbinaly
	posticion & cemeont as per ES: 269 Should be 17-5 alimm2
~	
C) D	Fine aggsegate csand) 2- The Fine aggregate share
	conform to IS: 383 UP-LO. date It Shall be clean
	Smulp, hask and angular graving and shall pass
	through 4-F3 mm I-S- sieve It Should be Free From
	dust, dizt, regretatie and organic matters. sea
۲ - <u>بر محمد متعامل مناطق</u>	Scient gran mot beused River or Pit smond shan be
	Msed.
5. 2017 - 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.	
Ē	Water 2- Water used snull be clean and eeusonable
	Free From instrucions anomatities of dereterious materiais
	such as oils, acibs, alkalies, suits and vegetable
	growth generally Portuble water Shan bened
Q	PREPARAtion of mortal :- The materials shall be
	Fisst mixed berto have a uniform colons and clean
	MUSOMALY SULFACE OS PIALTORM and them mixed
<u></u>	by adding clean water slowing and graduning by
	theoring atleast three times , Eseship mixed martice
<u></u>	Shall be used with in 30 minutes time after
منابع بر مربق بر مربق من مربق م م	ardding water
Manoj	1 2 3 4 5 6 7 8 9 10 11 12 13 14 13 19 14 Teacher's Signature :
	H standard and stand

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4	
	Page No.
	Date
<u>u'i's</u>	Preparation OF Sulface
• •	The susface of the wall shall be banshed,
	Cleaned, washed and wetted with water before
	Plastering Incure of cement plaster on cement
	concrete fue face Show be lightly songhended, Cleaned,
	washed and wetted
	TO EMSULE UMÉTORM thickness of pluster
	patches of 15 cm x 15 cm Strips at 1 m centres
}	
	Shau be appiled Riest
éivs	Laxing
<u></u>	Fisst mostas shall be faithed and Pressed
	over the surface and then brought tog true
	Smooth and unitorn sufface by means of Flout
	und Leower Extremar PLASTERIMS Shall be Starteb
	From top and worker bown towards floor
	FROMI FOP MALA WERKS G COUM FOW ALLES FLOOR
(V)	CURIENY
~ 1	The praiser shall be kept wet for atleast
	10 dares
A 11 1	and a contract of the second
	measurement
	plassering Shaw be measured in sam
-	stations thickness, mostas proposition and its
	mia
Manoj	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
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		Page No	44-
		Date	
	<u>te en en</u>		
	Assignment-3		<u> </u>
	MARKIST SURVISY		
		- -	
Q. 1	Provide the Prevaiing market safe of	the Fond	LI CONS
1	muterials in Your city		
	10 mm diametes ms Bas		· · · · · · · · · · · · · · · · · · ·
<u> </u>	REMIX FRAP		
(3)	53 Jacobes Portions comeant	<u> </u>	
<u> </u>	20 mm nomimal Size course aggresoite	<u>:</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
G	1 St CLOSS bricks		<u></u>
6	KOHM SLOME		
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Page No. Date \_ Assignment -4 RULE AMOUNSIS provin in details various Factors affecting rate analysis Q-1\_ The safe an an item of Wosk maining depends on the FALLOWING FULLORS: (D) madesial cost in material cost is an important Factor affecting gave analysis The safe of mulesials like remeater. Steph, samp, aggragates etc. Voir From Pince to Piace (2) Labour cost - The ware of Iabour is a variable factor and will vale from place to place person to person and From dime to time Equipments/machimere cost &- IF the execution of an item  $\langle 2 \rangle$ Requises the use of some specice equipment or plant the cost of using the equipments on the sentere basis should be included in the salte analysis of that item Walture of WORK : (a) RE INCRK Comeisis of large anomilies of the items the sates may be less and Wice versa  $(\mathbf{c})$ Location of eite 2- The site of WORK will have some effect on the sale of an item houses costain conditions. IF it is too Fas, make amound will have to be spent on casting similarie lifitie situated in a manie converted aged . It will not be possible to take the materians directly to the site This will increase the lost of transport of materiais and consequentir, the eases of the items win increase Manoj Teacher's Signature :

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Dow     Specifical 2: Systeme Cald heart as sain mae increase     inc anies of items     The anies of anies     The anies     The anies     The anies     The anies     The anies		Page No.
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Caca very stiff the sames of the various items win to high and vice verses Time limits. If the time limit tos the work is snow, has sames chill be on the highes site and vice verses to be transported costs. If the materials and interversals to be transported to the blass piece transfer pieces. the same of items blin increases the same of items blin increases items of construction, blatter is semilarly to remember has cutter, etc. exception is semilarly to remember has cutter, etc. exception is semilarly of the same blass is a deliver of construction of the protion of the constructor has cutter, etc. exception is semilarly of the same blass is a semilarly of the same of the protion of the same blass has cutter, etc. exception is semilarly of the same blass is a deliver's protion of the protion is semilarly has cutter, etc. exception of the protion of the same blass is a deliver's protion of the same of the same set of the same blass is a deliver, if it is the is the is the same set of the same set of the same set of the same set of the same set of the same of the s	· · · · · · · · · · · · · · · · · · ·	wasiemanship, the salles will be on the highes side
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9 Time limit & I & the time limit Iax the walk is sheet, the sates will be on the highes side and vice vesse. 10 Transported and cost & 16 the materials and vice vesse. 10 be transported to the block rank is bounded are 10 be transported to the block rank is bounded are 11 Availating at houses and electricity of For and mittur 12 the sol construction, whates is seawired, to sum mittur 14 the sol construction, whates is seawired, to sum mittur 14 the sol construction of the partice of the constructions 12 contractors's profile 13 contractors's profile 14 contractors's profile 15 g to 15%, if it is more or the fraction sate of the 16 construction attended and the soles when the sate of the 17 contractors's profile 18 contractors's profile 19 contractors's profile 10 contractors's profile 10 contractors's profile 10 contractors's profile 11 contractors's profile 12 contractors's profile 13 contractors's profile 14 contractors's profile 15 g to 15%, if it is more or the fractors when some soles it is the sole of the soles of the soles is the sole of the sole of the soles of the sole of the sole of the soles of the sole of the sole of the soles of the soles of the sole of the soles of the soles of the sole of the soles of the soles of the sole of the sole of the sole of the soles of the soles of the sole of the sole of the sole of the sole of the soles of the sole of the s	- <u>-</u>	
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Ð	FOR 1 m3 of brick work, 500 bricks reanized. FOR 10 m3 brick work 3-3 m3 mortax is reanized
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Item R-C-C L	JORK FO	os be	am in	1:1-5-3 C-C (FORIC	$s n_{2}^{3}$		
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Page No. 53 Date \_\_\_\_\_ Bxpianaldiom 1) FOR 10 m3 of wet concrete, 15.2 m3 of Lev conc. seawires PROPORTION 1:1-5-3 1-1-5-3 = 5-5 Cement: 1/ x 15-2: 2-76 m3 22-76 - 78-85 6495 0.035 SUY RE barg 5 Samp: 1-5 x 2-76 = 4-14 m3 199207940 312-76: 8.28 m3 (i) Assume 27. Steer of Wet Voinme of Concrete : voinme of stere 2/ x10 20-2m Densite of steel: 7850 Kg/m3 densite: mass Volume mass of steel 20-20 x7830 21520159 FOR 100KY OR Steer, 1kg binding Wire is Reanized m FOR 15 FOKS SLEER 16 Kg bimbing Wisers Reguised. 6 8 9 10 7 11 12 13 15 16 17 2 3 4 5 1 Manoj® Teacher's Signature : \_

Page No.  $\leq \leq 4$ Date \_\_\_\_ Q.4 Explain in brief about sunder work charge establishmen compingencies, Administrative approval Schedule OF Reifes, LUMP-SUM Items. Ô Sunder 5-WORK CHARGE & Stabil'Shmedt 8- WORK pharged estabilishmed i's the establishment which is charged to works directive pusing the construction of a building or a project a certain MUMBER OF WORK-SUPERVISORS, CHANKIbals Etc ale Required to be employed and their samaries are paib from the amount of work-charged establishment.  $(\mathbf{Z})$ Administacitive ofpravai 2- FOR any worker Profect ecanized by a beforetment, an approval or sametion 1 of the competent anthogitt of the derastment With respect to the cost and work i's necessary up the First instance The approval anthosities The engineering depuetment to take up the work Administrative approval demotes the tornage acceptance by the department concerned of the Pronoscie The engineesing department propare approximate estimate and preliminary plans and Submits to the deputitment concerned For administrative approval 10 -16 15 Manoj Teacher's Signature : \_

Page No. \_55 Date \_\_\_\_\_ (4)scheduce of earles :schedule of sales i's a list of sales at various items of works to facilitate the Preparation of estimates, and also to serve as a guibe in settling eates in connection with COMISSICH asserments a scheduce of solfes For all items range is maintained in the form of a primted books Knewmans Schedure of Ballec (SOR) The schedule of enter compists of group of liems such as executation items concrete items masomale items, Lemoniaion items. Plumbing Hems electrication items etc As the Rades of I'tems mendioned in the schedule of soutes are priceix to vary, the sorie 3 YEARS sovised usually affer Pesiodicalle CPWD, CL PREMIES COMSTENCTION The organisation of the government of india maintain Schednie Of sales book For various irene Permited OF WARK and estimate is prepared with fnese source Compingencies 3- The terms Contingencies  $(\mathfrak{S})$ 1° MA iscites In Cibentai expanses of miscellaneous charactes which can not be classified distinct item sub-head yet pertain Mont WARK US OLDINALE Eman Estimate el cestaria amonat l'an FORM OF CONFIMSEMLI'ES OF SPERCEME cent of estimated east 14 15 16 17 18 13 Manoj° Teacher's Signature :

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Q.5	Broigin the form Lansk work? . Discuss the Factors.
	affecting fusk work
	The cupacity of boing work by an artisan
	as skilled labour in the form of anantite of work
~	Perdax CENOURS Shift) is KNOWM as task work
	or out-then work
	TUSII WASK DEPENSIS UPON VUBIOUS fulloss
	suchas tupe of Labourg , andtuce of works, climatic
	conditions situation of WOLK, skill of labources etc.
×	This fusic work is the most incestain past of
	the sate amouresi's
	The task work por bar is carculated eitner
	be muintaining a secost of labours employed and
	the work dome OR by Experience the tusk work
	Per dur is calculated either be maintaing a
	Record of 10 bours employed. The public organisation
	such as P. W. D. have spandas dized the task woel
	per bur for different categories of labources
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	TOTAL LUBONKERS WORKES: 2X4: 8 NOS
	Talen alle la a and intrate
	1're one labours can exervate and of earth
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·····	ASSIJMMEMI-J
	Tendess and Condeaths
<u></u>	
Q.1	What is tender what particulars are to be given
	in tentes notice?
· · · · · · · · · · · · · · · · · · ·	A tender is an offer in Writing For
	executions certain specified work or for supplicing
	specified moterials subject to certain terms and
~	conditions line Rates time limit eta
	The constanction of warie is usually done
	be compared, search tenders are invited and the
	WORK is nenauer confransted to the lowest teader
· · ·	while inviting tenders the bill of augustitics,
	detailed specifications, conditions of contract
·····	cent provers and bacuings are supplied to the contraite
	Who wish to quote fuer's sates on parment of the
	Reauisite fonder Cost
	pepending upon the fure of Confeart, the tender
~	
	max be
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	Hem seite tendes
(3)	Cost Pins tendes
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<u> </u>	labours fearbes
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·····	The tembers mar be invited either by
	PRIVATE OWNERS OR PUBLIC MOTICE OR be megotiation
: 	The tender mar be either open tender Or
·	seiective tealder
Manoj	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 Teacher's Signature :
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	Page No. <u>5</u>
	Date
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	The notice invitions fender paper is a very important bocument on which tenders and subsequent
	agreements with the contractors are based. The
	abvestisement gravid come to the motice of the
	greatest number of potentian bidders
	All the tender motices Should be in the
	stundaled Form of department it is displaced
	in the motice board of the division and area
$\sim$	ciaculated to the related subbivisions and other
	divisions of the dependence
	The Imposeduant points to be included in the
	tearder motice are
	Name of the authorities inviting tender
Q	particulars of contractors elisible to sulmit
	teonders.
<u> </u>	Name of work, and its location
- B	EStimates cost of Works
E.	cost of complete set of tender torm
	TI'me of completion
E	presenest momen depositie and security beposit
E	Last bate, time limit and Place of Receipt of Seales
6	tenders.
	parte, time and place of areming of teaders
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	Nauisite Of tender
	Vallette ve regiera
Manoj	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 Teacher's Signature :

a ta ang	
	Page No.
	Date
<u> </u>	What are the duries and riabilities of owner
<u> </u>	Bagiarez & contractor
3	Judies and liabilities of owner
	The owners i's supposed to Provide meressale land or site
~	an Which the proposed work is to be constructed
- A B	The owned should appaint an engineer 120 10018 after
	the technicare reanizements of the work
N 3	The owner should supply necessare flums, and
	working traines turonaunis architect to the
	COMPRACEOS in fime so that the MORKI'S more Unmecessori
	deaures.
- D D	The owner Should respect the conditions of Contract
Ð	Concessing his powers and duties
B	The owner Should Provide metessuer work From to
	the contractor is hout work is not becaused
FØ	The owner should make accessary arrangement for
	the Funds securized tas the Constantion of the work
	So that settice farment from be made to the Contractor
D C	It is desirable that owner should pass all the instruction
1	to the Contractor through his contineer
Ð	The ownes should make assumptements to secoso
- M	the measurement of items in time befose there are
	Coverebut in the subsequent execution of work.
~ ~ @	The owner should supple materials and I'sene machimer
	rfitrs a part of the contract
	The owner Shanis not interfere with the Progress of
<u>ک</u>	the WORK and Shanld may parts such instructions with
- -	will read to the Problems of extentitions, 11'ani'saded
	Lumages etc
Manoj°	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 Teacher's Signature :

Page No. \_\_\_\_60 Date \_\_\_\_ in TL Should tempose Suspend the work mol T10 Posseccion Limeip am die Contractos puties and licibilities of the partiments # Ð Shpernise the execution OSJOIMISE 2 SINHALLE and Ecomo micallo Specified With Cassiek ont anality of materials of the executive enginees PREPARE R WORKS throngs estimote PRO POSEL OF his SUBOSLOMMA the same to his mis Superintenting. GI The enginees 1°-5 Responsible 702 EXPLANTME B PLEMA Specifications and PEONSCIO 1Le Responsibi The CMTIMEER F68 Siving all lines L 1°m 20 L Commercia 5 The that RD WORKMANSHIP N I'm the technical PROVISIONS Specification to invite tenders For works valueed with 15 dut > obtaining at ministrative approva his Power, eitler fechnical Scialtion Ceard 4 Cestain complicated terms emgimees <u>ta</u> The gi've of operations method of Consignation in detain In the (Ç This dutr of the to Prepere <u>Congimees</u> S RECIFICCUTION For the WARK cloud to see that these specifications CLRE accurate proper and Responsible For the work R The assistant engineer i's For <u>Responsible</u> foreing <u>a etailet measurement Ot WORKS during</u> 1 2 3 4 5 6 7 8 9 10 11 12 13 <u>PROTRESS</u> 15 16 Manoj Teacher's Signature :

SG GG WE CPA WECPOV Page No. 61 SEULE WERD CALMT Date . the same in m.R. clat PREPORE enter Payment TO See that macimere liker WORKS 10 10 MS ed an M ase maintained PROPERIE end To KEEP tools and PICIMES In Working 60 Protect SURPIUS Stock erond CLARCIAGE deterioral 6-60 encrodenment an Goverment land To\_ Prover Undes his division Responsible for the acts is 13 The enginees assistemts other OI QRAAP C & (19) the engineer THIS CUSO the mf diaz > are bitseltos mE COURT tine hearing of the Li'o puze of the Contractor liabilites and A bull'es to pa Confactors ec Pam Sible  $\cap$ The R 10160 materials eanipm under the provisions the Confector 01 execution of the WORK CULLRONT the WOR The Sh P C and specifications er c Per 'sections given the empineer Should Inform th Comtenttos T taking up Enginees hefore before covering ananified appoint a PPRC The Contractor Should 1'm Stractions Whom er're Ot the - 6 am 1mpart l'ercaions 60 secondine to Respect Cli E The mfearbox Prevaiina ICIDOUR LOUNG CLMA Manoj Teacher's Signature :

RCS BL DOSHE Page No. 62 Date \_\_\_\_\_ ents to his labourers ac weekcie to the SUL. MIRUCIORS The contractor i's responsible tos close bamage to C A the persons or adjoining properties during execution OF WORK T The Contractor Should Sive all the required assistance to the engineer for establishing the limes and levers OF the work Q The contentos should submit the blirs of work 6 as and when required The contractor is responsible tor arranging for 0 the permit of the controlled materials and Paying Fees and Roughles For the us of patentes articles or processes The contractor is recromeible for the safety of 10 all the Montels and performer Working at the 5 Sibe and should PRAVI'LE Calety Shoes, heimente Chr. tathe 1 long is meen N To herondover the completed WARK i'm a sound - compition 12 The contractor should Submit his right for 15 Expension Anetime 17 10 16 11 12 14 15 Manoj Teacher's Signature : \_

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B. 12	ENLISE DIFFREND INPE OF CONFERENCES DISCUSS any
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	OS FIRM to do cume work under certain terms
	and conditions. This wax be tos the
	constanction or maintenance and separas to the
· (	SUPPLY OF MULLERICIES, FOR the SUPPLY OF LALOUR
	For the teamsport of mate signs etc
	These are different fure of contract given as below
<u>(</u> )	LUMP Sum contract ? In Lump-sum contract undertaikes
	the execution of construction of a specific work with
	en its contingencies to complete it in an zespects
	Within a specifies time for a fixed amount the
	general specification and descriptions of different
· · · · · · · · · · · · · · · · · · ·	past of the building with dimensions where requires
· · · · · · · · · · · · · · · · · · ·	ase included, the quantities of schedule of different
	iteme of work are not provided the contractor shan
	have to complete the work as per plan and specification
-	on completion at the Work no detailed measurement
	OF different stems of work is required but the
	Whole work is compared and Chacked by With Plang
	and beawings
Ø	2 umpsum and Schebule Contract - This is similar
	to sump sum contract but the schedule of rates is also
	Provided in the Contract agreement for this enstern
	the contencion undertakes the execution or
	construction of a Particular work at a Fixed sum
Maroj°	$\frac{1}{1} \frac{1}{2} \frac{1}{3} \frac{1}{4} \frac{1}{5} \frac{1}{6} \frac{1}{7} \frac{1}{8} \frac{1}{8} \frac{1}{9} \frac{10}{11} \frac{11}{12} \frac{13}{13} \frac{14}{15} \frac{16}{16} \frac{17}{18}$
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Page No. Date \_\_\_\_ specifications and conditions and the scheduce of FOR VERSIGERS THEMS OF WORK dre OISO-PROVIDED halle Requirates the extra amount to be pairs 08 deauched for any additions and alteration. In this ouse also no measurement of various items of work involves for the originar Work is required but measurement Of exten Shems only Shall have to be forced Scheduce Contract of item Rute Contract :- Em Scheduce Contract, the contractor undrickes the execution or Construction of a work on the life m rate basi's The amount the contractor is to receive depends upon the anantities of various riens of ward actually bane the contract agreement racinges anampibiles saires and amounts For various, items of work and the total amount of Contract, plan and detailed decivings detained specifications - The parment of the contractor is make be detailed measurement or different items of works actuality dome by the contractor the sustern is used Forail WORKS 11 16 Manoj Teacher's Signature :

Page No. Date \_ Bonumesate and discuss vasions types of tenders Q.A. Reised on the method of inviting tend ther are tures tupes (N open tendes of public tendes @ selected temper or limited temper Negotiated tendes Open tendes de public tendes (h For this type, tearters are invited by Public advertisement Theopen tender methodis usually adopted for public works, as the law Generalis require that government contracts and other public contracts be advertised publicity, to Obsain the most advantageous teems Any contractor whoi's winning to hodertake a precept work and who has the seanisite Finance and equipment to complete it satisfactoris allowed Fo submit the offes This competition is classified I'mto two granps Locar competitive bidding cress - when submission  $(f_{2})$ OF denders is restricted to Endran companies only Intermationar competitive bidding CICRD :- When it  $(\hat{\mathbf{x}})$ 1's open to all contractors inclusions internetional 1 Franc Selected Tendos of Limited tendes  $\overline{(2)}$ In case of selected tender, the architect arter consultation with his client, invites a limited number contractors toe timing up the tender of the Protect <u>EL results into competition and small scale But it</u> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 Manoj Teacher's Signature :

Page No. \_\_\_\_\_ Date \_\_\_\_\_ Proves to be licefue For specialised and skilled Ft also Recults in early Successful completion of the propert This procedure is usually abopted for private Tobe where the owner hus the sight to megoticite directive and to enter into an aggrement with whomsoever he chanses. This Procebure can be bights recommended For mominmental structures Embustrial construction and other works that specialised knowledge and Pauipment (3)Negoticited Tender :-This is the advance Form of selective tender erad the contract is given by negotiations with one OR at the mast two contractors. As such three is pompetition in this type of temper and hence 1" I MAY PROOVE to be COSTIE. BUD When the WORK is to be completed in target time without sacrificing For the anality the negotiated tender max prove to be the only alternative This Procedure can be adopted in the Following CI's rumstances The Firm Chosed 1's ome in Which the owner his engineer have confidence and Whose rategrite and reinerbinise are weer established. The WORK to be carried out i's within the special 2Scope and experience as the FIRM The works is to be completed for talget time without SUCRIFICIONS FOR the Mudility 5 9 11 10 Manoj Teacher's Signature : \_

Page No. Date \_\_\_\_\_ iskpiain the 'tender' . Draft a tender motice for G.S construction of bons hoster For Bongimersing concere Tempers & Fender is an offer in writing for executing Certain Specified work of For supplying specified materials subjected to certain items and consitions like Rades, dimenimit etc Notice inviting tendes TEMLES MOLICENIO Seared tembers in the prescribed Form for the POLLOWING WORKS CLE INVITED FROM REGISTERED Comtractors ci'm the appropriate class with the governemt etc. , to reach this office a.m/p.m. on Cacite- 2 up to as before The Lembers will be opened an the same day of An it possible in the presence of the intending Lemberers BIGAK tendes Forms will be available on payment of RS. \_\_\_\_\_ Which is not setundable , on claip marking buy From eduses to Charles during office hours i.e. a.m. p.m. Don weekbares, and up to pm on saturday contractores desirens of obtaining tender Forms by Post Should Remit by momen order in advance ine amount of require tember fee plus Rs. Lo cover postage 3 4 10 11 12 Manoj Teacher's Signature :

	Page No Date The earmest momer by way of treasure receipter challan should accompany the tember
	Without which the tender will not be considered.
	Barnest momer will not be accepted in cash as
	by cheque under done cl'adam stances, Fulther particular
	in connection with the work can be had from the some
	office the authorite competent to accept the tender
	geserves the right to rerect the lowest or all
	tenders without assigning any reason
2 a 1	Norme of OEStimore O nore etime of issuincy St O paraget moment biank tenders.
NO	No. O render fre O Date & time of depending
	Work & Time limits Secure & teorer.
	& noted time of areming
0	constanction of bons BRS-2001920 the tenders
	hoster in engineering ORG-210Kh D 21.03.2017 MPto 5-PM
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	ASSIGNMENT No. 5
	VALUATION
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Q.1	betime vaination (Explain in brief Purpose of valuation.
	Drscuss Various Factors altections valuation
	valuation is the ast of estimations or determining
	the Fai's Psice of value of a property such as a
	building, a factory, other engineering structures.
-	1 cm b e to
	The main Pusposes of valuation are as follows
G	BNYING OR Sening PROPERTY
i	When it is required to hup or sell a property
	the varination is reanized
B	Security of loans or morehaade
	when loans are taken against the securite of
	the property its varmention is reanized. It is also
· ·	geferred to as valuation tor mortrage Purposes
B	Real Fixation
$\frown$	For order to determine the reatory property
	valuation is realized Reat is usually fixed an certain
	precentage of the amount of valuation c57- to 16 1/2
	of the valuations
· (4)	Pasuzance 2
	FARTHE PHEPOSE OF FORING OND UM IMENRUMO
	police of the peoperty the owner desides to know
	the replacement value of the property. For this capy
	the value of 1010 bill excludes or omister
B	Tuxation
- V	To asses the tax of a Property its Valuetion
	i's sean i'les. Taxes mar be municipalitar, properson
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	Page No Date
· · · · · · · · · · · · · · · · · · ·	tar, wearth tar, ore and an the taxes are fixed
<u> </u>	on the valuation of the property
6	Compulsours acahisition
	sometimes a property is acquired by law for
	Some public pulpose for that case, the intrues party
	is to be paris a suidable amount of compensation for
· · · · · · · · · · · · · · · · · · ·	the property thus acquired. To determine the amount
	OF compensation variation of the property is
$\sim$	Seauiret.
Œ	Betterment Charges
	when the PRAPERTY Comes under some town
	Praning scheme of the area its value increases and
	Consequentity the owner of the Property is required
	to par additional tax known as the betterment
	Charges It becomes therefore decessary For the owner
	of the property to know the value of his property
	belose and after completion of town planning
· · · · · · · · · · · · · · · · · · ·	Scheme,
<u> </u>	specmation
	when a puschase is intended tossare of
	the Proposto und maire some Profit, a short period
	Vanation is necessary For that pherose and this
	is known as spechative value oremeralis spechative
	vane is lesser fram the market value
Ð	Court Jees 2-
	when a case has to be flied with secrect to
	execuse estate. it becomes mecessary to attix stamp
۰.	or suitable amount, This amongs is worker on
	arter assiving at the value of the property
	$\frac{1}{1} 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18$
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--- Page No. \_\_\_\_\_ Date \_\_\_\_\_ Gript tap: When a Property is gitted, vaination <u>A</u> OF the gifted Property is necessary to pay gist tax to the governent by the person whom the Property has been gibbed  $\bigcirc$ Baimance sheet in Sometimes, a Company requires valuation of its premises for the phapose of Showing them i'm the balance Sheet 8 9 14 15 16 17 18 2 3 4 5 6 7 10 11 12 13 Manoj Teacher's Signature : \_\_\_

Page No. Date \_\_\_\_\_ 0.2 Haw would you determine the volume of the Property sentue method of valuesions formercite USI'M 9 125 advantures and 11mitantions POI.555 In this method, the net rental income FROM a PROPERTY is carchineted ardes deductions all antgoings from the gross lent, and reads Phechase CY po is calculated after adopting the current bank interest. The Manuadion of a Property is worked out as under capitanizes vame: Net income creato & place pullage C-V: N-IXY.P 30 Net income: Net cent: Gross real - Out saints When the Reat From a Property is KNOWA this method is useful for valuation of a property The the land is Free hold at the end of UseFin life Of a building land value is available The present value of land can be obtained asl CItism · vanne of Property and of land & vanue of building BURING Valuation by Reatar method the Following Particulare shall be comsidered Local and its tenuce i.e Free hold be lease hald S FUSURE life of building 3 Cubic content of the building -> GROSS ROME Year's Pulchase Capital Repairs 11 10 12 16 Manoi Teacher's Signature : \_

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		Page No Date
	This method is very	USEFUI FOR M PROPERTY
	with a new building, ance the Far	
	the method of calculations as	e straight and
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	pisadvantages at vaination by	
$\bigcirc$	The actual Reat rais must be sent, atherwise very little	
<b>\</b>	pinced upon it	Semonice Courses
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	neads i's difficult	
6	A PROPERTY COMSISTING OF LOW	no and building
	values to sether and mot be	PROPORTIONC6
	afterwards.	
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B	Replacement Value
T	Lonvestment value
<u> </u>	Sentimental voure
B	Specniative Value
<u>B</u>	Amonne value
<u>_</u>	Potential Vaine
<u>(1)</u>	OCCUPMENTOON VAINE
<u> </u>	Present Vaine
CO	market value :- The market value of a property
	is the amount provide can be obtained at any
	passionicis time from the open macket is the
	Properte is put for some
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Ð	BOOK VALUE 3- BOOK VALUE 15 DEFLORED AS the VALUE OF
*	the PROPERAR shown in the account book in that
	Peas l'ethe asiginal cost less the total
	Lepesiciation tim that reas
	Book vanne at the ead of Partimus Years
	zoriginar cost- total beperectiontion tin
	<u>fne Ende 6t the peak</u> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
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٢	scrapvalue: scrap value is the value of dismension
	materials of a Property at the end of its utility
	Periob, For a building when the liters over at
	the end of its usinite posion the dismentled
	Will Fetch a restain amount which is the scrap
	vanue of the building
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<u>_</u>	Souvage value: Jais the estimated value of a
, ,	PROPERTY at the end of its neeth life klithout being
	dismentied Et is generalis accounted by deducting
*	the depreciation From 145 new cost
3	Accomptation value :- The value of the Suzzonaling
	agriculture rand of a clay which is expanding
	considerabile will be more i'F the lambing Convertes
	in so accomplaision land after Obtaining approval
$\cap$	From the competent anthoxity the value of Sher
	landi's Known as a compartion value
6	Distress Vaine 2- Em case a Properte i's cold
	at a lower price than the market value at that
	fime Stis saint to have a dispess value
(F)	Momopoir Vallue 2- Im some cases the Property porsesses
	restain advantages with segrect to detaining
	PROPORTE due to it's location, size, grape etc
-	the ownes may demand famer parce. Such
	Vaine of a property is known as monopoly
Manoj°	<u>1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18</u>
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		Date
8	Replacement value:	
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	at the cussent masket sates	
9	Envestment values	
	Investment value of a P	ROPERTER I'M Alcoutes
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	be keeping in view the adver	•
	the property & som investment	
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10	seatimental vaines-	
	When a Property is sold of	8 Phachaceb at a
	higher value than the market	
	of sentiments in the mind o	
	the purchaser, this is Konadon as	Sentimental Value
<u>(</u> )	Spechiative Values	
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	used will course a sise in value	Spechiatols Phrchese
	such Propreties at a 18W price	as farans Possible
G	Amonucial value:	
	The local ainthogilp has to	declase the commune
	vulue of the Property so that t	ares can be calculated
	on that has is	
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12	Potential vanne?
<u> </u>	When a Peaperte is capable OF Fetching
	mose return due to its appearative use o's Ly
	advantageous planing of by providing some
	development works, Sheh imperent volue of
	a property is known as potentian value,
14	OCCUPATION VALUE 2-
	when the purchasers are attracted to own
	the Property FBR occupying tos their personae
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- 	Scibi's functory substitutes exist from Ini's i's Known
	as occupation value
<u> </u>	Present vane
	The value of a property calculated from present
·	market sate is known as Present value
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Page No. 📑 😵 Date \_\_\_\_\_ Cha. cont piscuss the methods to determine depreciation Q.4 Deprecionion is the gradual loss in the Name of the property due to its use, life wear, sear and decar The various methods of concurations deperectation are as fonous A) Straight line method constant percentage methab 2 Simking Frind Method  $\textcircled{\black}{\black}$ (A) Quantity susver method Stadigut line method: <u>(1)</u> In this method I't is assumed that property loses its value lip the same amount every rear A fixed amount of the asitimal cost is deducted every your. So that at the end of the utility poerod any the Graup Value is left Ammune dependicion: Ammune decrease I'm value of a Pholestr C-S n : 2 Ammunal depreciation where p: C: OSITIMUL COST S: SCRUP VULLE life in reals pepearciation of the property after <u>e-s</u> xm · mxb 4 6 7 . 17 5 8 9 11 12 15 16 10 13 14 1 Manoj Teacher's Signature : \_\_\_

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Constant percentage method or ne	ciforing banque method
En this method it is use	
Win lose its varue by a constant	Percentage of its value
at the beginning of every years	
BY this method, decrease	in the value of
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Slower gate. This method is more	smitche Fox concurations
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percentage sates of annu	as depreciation
P-T- [5] 1/20	
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	ACT CEPECTONION
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Page No. 20 Date \_\_\_\_\_ > TET is the sate of interest, amound sinking Funz Eastailment cps to accumulate instan M YPULL p: q CILLION-1 17 1 is the sche of interest, and I RC i's deposited over year dotal simking fund accumulated as the end of on reals is C1+1 399-1-Q <u>2</u> :- Rule of depreciation in a recus ~ CPX93 Y. 18 2 9 10 11 14 15 16 17 4 5 12 13 8 Manoj Teacher's Signature : \_\_\_

-- Page No. 181 Date \_\_\_\_\_ 0.5 concurate amount of annue simking Fund at 5%. interest For a building constructed of COST OF RS 10,00,000 ASSUME the FULLE like of building to be to rears and sceane value of the building to be 15% of lost of construction C: 10/00,000. S= 6.15× 10,00,0001-- 1, 50,000 C-S = 10,00,000 - 1,50,000 - 8, 50,0001- CAMONALOF S.F. BECHILLES : 1: 510 Ammunal instalment of S.F. F= CC-SOX C1210-1 1 \$150,000 × 0-05 CI+0.06330 RS. 8959.64 7 8 9 18 2 10 11 14 15 -16 17 6 12 13 Manoj° Teacher's Signature : \_\_\_

Page No. Date \_\_\_\_\_ Q.6 Workond the seart Per annum of a property From Following Letais  $\bigcirc$ cost of Land: RS, 7,00,006/2 Œ Lost of construction: RS, 25, 50,000/2 (3)Requised setuen of land: 8%. (4) Reanized Schusmab philding: 8%. G SSHIMATED LIFE OF building: 73 reals **(**2) Rate of interest of simking Fund : 8%. AMMUAR REPAiles: RS-23,000/-Œ  $\langle \hat{\boldsymbol{q}} \rangle$ All other ontrainast 30 y of gross reals Take scrape vaine of building as 10% Costof Land: RS. F. Do. 000/-Cost of Consegnetion: RC. 22.30,000/-SIPALLES domual setues 09x 7,00,000 + 0.09 x 25,50,000 2 85,5001cip out soimas - 6-36 G.T CIID DODALLES REDELODOL Clip: Sinking FUMA: B.OGX 25150,0001-2,04,000L 1. TOTAL ONT 301 M982 0.30 GI + 23,000 + 2,04,000 - 0-30 Gr + 2,29,000 Net Encome: Gress income- total ourgoings M-F: G-I-CO-30GE + 224000) 21821500 monther & Realt \$133,000 514500 Ce - F 5-61,250 12 1 213 9 10 11 5 600 -Manoj° Teacher's Signature :