GUJARAT TECHNOLOGICAL UNIVERSITY

DIPLOMA ENGINEERING – SEMESTER –V • EXAMINATION – SUMMER 2017

Subject Code: 350602

Ti	ime: (structi 1. A 2. M 3. H	Name: Quantity Survey and Valuation 2:30 PM TO 05:30 PM Total Marks: 70 as: deempt all questions. dake suitable assumptions wherever necessary. dures to the right indicate full marks. ach question carry equal marks (14 marks)	0
Q.1	(a)	 (i) Write the purposes of preparing detailed estimate (ii) State the different types of measurements units with one example of each. 	04 03
	(b)	(i) State the types of values(ii) State the rules of deduction in plastering	03 04
Q.2	(a) (b)	Write detailed specification for brick masonry in C.M. (1:6) Derive the rate analysis for 12mm thick cement plaster in C.M. (1:3) OR	07 07
	(b)	Derive rate analysis for RCC work (1:2:4)	07
Q.3	(a)	Calculate quantity of 12mm thick inside plastering in CM (1:4) of residential building as shown in figure 1	07
	(b)	Calculate quantity of brick work in C.M. (1:4) in foundation and plinth of a residential building as shown in figure 1 OR	07
Q.3	(a)	Calculate the quantity of earth work in excavation for foundations of walls of a residential building as shown in figure 1	07
	(b)	Calculate the quantity of tile flooring in room no. 1, room no. 2, room no. 3 and earth filling in plinth of a residential building as shown in figure 1	07
Q.4	(a)	Calculate quantities of form work and concrete (1:2:4) of beam and total numbers of cement bags required in beam from figure no. 2.	07
	(b)	Explain the methods of depreciation in detail. OR	07
Q. 4	(a)	Calculate quantities of 20mm dia. and 8 mm dia. steel reinforcement from figure no. 2	07
	(b)	Distinguish between (i) Scrap Value and Salvage Value (ii) Book Value and Market Value	07
Q.5	(a)	A person has purchased a house for Rs. 90,000/ Scrap value of building is 10% of the construction cost. The life of building is 18 years and rate of interest is 5%. Calculate the installment of sinking fund. Take land cost Rs. 50,000/	07
	(b)	A loan of Rs. 5,00,000/- is to be repaid in 15 equal installments. Calculate amount of each installment if rate of interest 11.5% OR	07
Q.5	(a)	Workout the monthly standard rent for newly constructed building with the	07

Date: 04 - 05 - 2017

	(b)	its sale on today, what is the present value of property if the rate of interest is considered 6%.	03

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પ્રશ્ન. ૧	અ	(ii) DF56LGF H]NFvH]NF V[SDM NZ[SGF\ V[S pNFCZ6 ;FY[,BMP	04 03 03
	બ	(i) J[<i] %,f:8zl\u="" (ii)="" ,bm="" ,bmp<="" 5 sfzm="" afnafslgf="" df8[gf="" gf="" igidm="" sfddf\="" td="" vm5gl\u=""><td>03</td></i]>	03
પ્રશ્ન. ર	અ	1:6 GF 5 DF6DF\ R6TZSFD DF8 IJUTJFZ IJIXQ8 IJJZ6 ,BMP	07
,,,,,	બ	1:3 GF ;LD[\8 SM,DF\ 12mm HF0F. GF ;LD[\8 %,F:8Z DF8[EFJ 5'yYSZ6 SZMP	07
		અથવા	
	બ	VFZP;LP;LP 1:2:4 SFD DF8[EFJ 5'yYSZ6 SZMP	07
પ્રશ્ન. 3	અ	VFS'IT! DF\ NXF"J[, DSFG DF8[12mm HF0F. G\]; LD[g8 SM, (1:4) DF\	07
	બ	V\NZ GL NLJF,MG\] %,F:8Z SFD GL ZFXL U6MP VFS'IT! DF\ NXF"J[, DSFG DF8[5FIFDF\ VG[%,LgY DF\ ;LD[g8 SM, (1:4) DF\ .\8 SFDGL ZFXL U6MP	07
		અથવા	
પ્રશ્ન. 3	અ	VFS'IT ! DF\ NXF"J[, DSFG DF8[NLJF,M GF 5FIF DF8[VMNF6 SFDGL ZFXL U6MP	07
	બ	VFS'IT! DF\ NXF"J[, DSFG DF8[~D G\AZ !4 ~D G\AZ Z4 ~D G\AZ # DF\ 8F.<; OZ;A\WL VG[%,LgY DF\ DF8LGL EZTLGL ZFXL U6M	07
પ્રશ્ન. ૪	અ	SF\S L8 (1:2:4) SFDGL ZFXL T[DH ALD GF SFD DF8[H~ZL S],	07
	બ	;LD[g8 GL Y[,L U6MP ID,ST GF D} <idf\ 5wwitvm="" ;dhfjmp<="" ijutjfz="" td="" u6jfgl="" w;fzm=""><td>07</td></idf\>	07
		અથવા	
પ્રશ્ન. ૪	અ	VFS'IT Z DF\ NXF"J[, VFZP;LP;LP ALD 5ZYL 20mm jIF; GF VG[8 mm jIF; GF ,MB\0 GF ;/LIF GL ZFXL U6MP	07
	બ	TOFJT ,BM o E\UFZ D] <i d]<i<br="" ih6mwwfz="" vg[="">RM50F D]<i d]<i<="" dfs["8="" td="" vg[=""><td>07</td></i></i>	07
પ્રશ્ન. પ	અ	V[S jIISTLV[$Rs. 90,000/-$ DF\ DSFG BZLN[K[P DSFG GL E\UFZ IS\DT AF\WSFDGF 10% K[P DSFG G\] EFIJVFI]QI 18 JQF" K[P jIFHGM NZ 5% K[P HDLGGL ISDT $Rs. 50,000/-$,. GF6F E\0M/GF JFIQF"S C%TFGL U6FTZL SZMP	07

	બ	Rs. $5,00,000/$ - GL ,MG 11.5% jIFHGF NZ[15 V[O ;ZBF JFIQF"S C%TFDF\ EZ5F. SZJFGL K[P TM C%TFGL ZSD XMWMP	07
		અથવા	
પ્રશ્ન. પ	અ	GLR[GL IJUTM p5ZYL GJF A\WFI[, DSFGG\] DFI;S EF0] U6Mo (i) HDLGGL ISDT - Rs. 7.00 lacs (ii) AF\WSFD ISDT - Rs. 5.00 lacs (iii) RMbBL VFJS @ AF\WSFD IS\DT p5Z10% (iv) RMbBL VFJS @ HDLGGL IS\DT p5Z 5% (v) GF6FE\0M6 ;FY[GF S], IGUF"DL BRF" - JFIQF"S EF0FGF 30%	07
	બ	(i) VFH[J[RFI[, ID <stgf (ii)="" 5="" 5.00="" 5kl="" 5 df6[="" 6="" 6%="" ;[ij\u="" ad6f="" cmi="" d="" gf6f="" gl="" gm="" hm="" imhgfdf\="" is\dt="" jfgf="" jifh="" jifhgf="" jqf"="" jqf"df\="" lacs="" nz="" rs.="" td="" tm="" vfh="" xmnmp<="" xmwmp="" ytf="" zms[,=""><td>03 04</td></stgf>	03 04
