14 100. 6	OV 2019
[ REV COURSE ] SEAT No.	
(4 Hours) [Total marks: 80]	
Question No. 1 is compulsory. Attempt any three out of the remaining five questions. Figures to the right indicate full marks Assume suitable data if required.	1
RCC (M20) for roof slabs and beams   Brick work  Internal plaster on walls and ceiling   Flooring and skirting   in c.m 1:5, 12 mm thick	20
What is meant by rate analysis? What are the purposes of doing the rate analysis? form rate analysis for UCR masonry work in cement mortar 1:6.  What are the causes of dispute between a contractor and owner? How is the dispute	10
ween contactor and owner solved? Explain briefly.  Calculate the total built up area of building as shown in figure of question no 01. Prepare approximate estimate of the same building. Assume cost of construction of super	10
ructure as Rs.8000 / sqm.  ) Why is specification considered as legal document? Draft the detailed specification for	10
5 mm thick single coat plaster work in cement mortar 1:4.  3) Clear dimension of a one-way slab is 3 m x 6.25 m. The slab is supported on 230 mm nick wall all around. Main bars are 8 mm dia @ 150 mm c/c (alternate bars bent up) and istribution bara are 8 dia @ 200 c/c. Thickness of slab is 125 mm. Calculate the quantity of reinforcement per cum of concrete in slab. Also calculate the quantity of cement, sand	12
and aggregate. Grade of concrete is M20 and grade of steer is Pe413.  A leasehold property is to produce a net annual income of 5,50,000 for the next 30 years. The owner expects a return of 8% on his capital and also sets apart a sinking fund installment to accumulate at 7% annually to replace the capital. Determine the value of the	
property.  A) Estimate the quantity of earthwork for a portion of a proposed road from the following data.	12
Dist. in m 0 60 120 180 240 300 360 420 480 540	
83.12 82.44 81.86 82.08 81.3 80.8 80.54 80.82 80.96 81.30	
East O VIC 1 I IDWARD ELIGIBII VIVI	
FL 82.42   Downward gradient 0.8%   Option   State   Proposed formation width of road is 12 m, side slope 1:1.5 in cutting and 1:2 in banking	
Also draw the mass diagram.  B) What is contract? Explain valid contract, voidable contract and void contract.  Write short notes on (any four)  Rules for deduction in • Concept of Sinking	8 20

Concept of fund Administrative approval

masonry and RCC work Price variation clause

TURN OVER

Q.6

Balanced and

EMD and SD

Unbalanced tender

NOTE:.

Q.1

Q.2

Q.3.

Q.4

