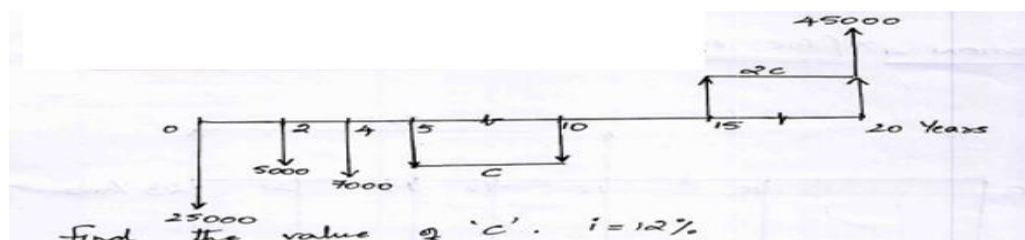# HUMANITIES AND MANAGEMENT

V SEMESTER B TECH (COMMON TO ALL)

Internal Assignment 1- Quiz

Mark the right option for the following questions

Q1.For the Cash flow diagram given below, if the interest rate is 12%, the value of 'C' is closest to: **(2 marks)**
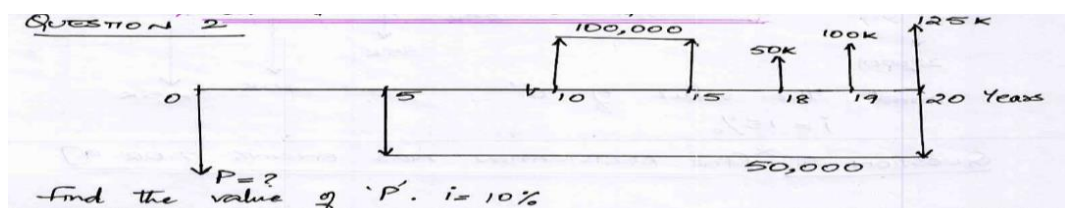

25000 (F/P,I,20) + 5000 (F/P,I,18) + 7000 (F/P,I,16) + C (F/A,I,6) (F/P,I,10) = 2C (F/A,I,6) + 45000

= 25000 (9.646) + 5000 (7.690) + 7000 (6.130) + C (8.115) (3.106) = 2C (8.115) + 45000

= 322510 + 25.2052 C = 16.23 C + 45000 => 277510 = - 8.9752 C

C = - 30919.65

Q2.For the Cash flow diagram given below, if the interest rate is 10%, the value of 'P' is closest to: **(2 marks)**

[-50000 (F/A,I,16) + 100000 (F/A,I,6) (F/P,I,5) + 50000 (F/P.I.2) + 100000 (F/P,I,1) + 125000] (P/F,I,20)

= [-50000 (35.950) + 100000 (7.716) (1.611) + 50000 (1.210) + 100000 (1.100) + 125000] (0.1486) = 3,336,047.6 (0.1486)   = -38480.33

Q3.A series of uniform deposits 'X' are to be made starting from 3rd year till 10th year. The worth of the deposits now when interest rate is 10% can be found using: **(1 marks)**

a) X (A/P, 10%, 8) (P/F, 10%, 2)	b) X (P/A, 10%, 8) (F/P, 10%, 2)
c) **X (P/A, 10%, 8) (P/F, 10%, 2)**	d) X (P/A, 10%, 2) (P/F, 10%, 8)