

Nagar Yuwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering
(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
Hingna Road, Wanadongri, Nagpur - 441 110

EVEN Term 2021-22 15.07.22 Mid Semester Exam I

Second Semester B.Tech

AIDS-2157 Object Oriented Programming

Time: 1Hr 30 Min]

[Max Marks: 30

Instructions to examinees:

- 1) No additional answer book will be supplied.
- 2) Attempt all questions.
- 3) Figures in bracket to the right indicate the marks for questions.
- 4) Assume suitable data wherever necessary.

Q.1	Solve the following	Marks	CO & Bloom's Level
a)	Explain any four basic concepts of Object Oriented Programming.	05	CO1, L2
b)	Draw the UML notation for class and objects to design Employee class.	05	CO1, L6
Q.2			
a)	An 'Area' class of 'cal' package contains various methods for calculating area of three different shapes. Write a program which will create this package. Also create a new child class extending from Area and print the area of all shapes.	02+04	CO1, L3
b)	Differentiate between abstract class and interface,	04	CO1, L4

Q.3			
a)	Develop a java program which will accept a password from user and throw "Authentication Failure" exception when <u>password</u> is incorrect.	05	CO2, L6
b)	List and explain methods of collection interface. Demonstrate the program using the methods,	02+03	CO2, L1, L6