| [Total No  | -0-          |   |  |      |
|--|--------------|---|--|------|
|  | of Questi    | ons: 04] Seat No:   | [Total No. of Pages: 02]   |      |
| IT:  |              | G. H. Raisoni College of Engineering an<br>(An Autonomous Institu<br>S.Y B. Tech (Com/IT) (T<br>ESE WINTER-2020 (2019/20<br>Object Oriented Programming (                           | nd Management, Pune. ution) ferm-III) 016 Pattern)                         |      |
|  | : 3Hour]     |   | Max. Marks-60  | 1    |
| 2. U<br>3. A<br>4. A                                       | dapt the va  | fundamental principles of Object oriented<br>and implement appropriate methods to solv<br>rious strengths of object oriented programs<br>Design solution for real world problems us | e a problem.   | ion. |
| <ol> <li>At the</li> <li>All qi</li> <li>All qi</li> </ol> | uestions car | of question/sub question indicates the cours  | e outcome related to the question.   |      |
| CO1:   | a)           | Explain the basic features of Object Oriented Programming in detail [5] (Any five)  |  | [5]  |
|  | b)           | Define Constructor. Explain various suitable example  | is types of Constructor with   | [5]  |
|  | c)           | Explain the concept of function ov overloading with example   | erloading and operator   | [5]  |
| CO2:   | a)           | What id Data Encapsulation? Expliin the C++ with example  | eata Encapsulation? Explain how Encapsulation is achieved [5] with example |      |
|  | b)           | Define Polymorphism? Differentia detail   | te the types of polymorphism in  | [5]  |
|  | c)           | What is Inheritance? Explain vario with suitable example  | ous Types of Inheritance in detail   | [5]  |
| CO3:   | a)           | Write a program for Music_player suitable Object Oriented Programs The class must contain the following 1. Create_List 2. Insert_Song 3. Display_SongList                           | ning Concepts.   | [5]  |



