Unit– II
Classes and Objects

1. *State the characteristics of* destructor. **[2]**
2. *Explain memory allocation for objects.* **[4]**
3. *Write a program to declare a class 'Journai having data members as journal-name, price & no-of-pages. Accept this data for two objects & display the name of journal having greater* price. **[4]**
4. *Write a program to define a class having data members principle, duration & rate-of-interest. Declare rate-of-interest as static member variable. Calculate the simple interest & display it far* one *object.* **[4]**
5. *Illustrate the concept of* constructor *with default.a~ment with suitable example.* **[4]**
6. *State any four characteristics of* constructor. **[4]**
7. *Explain the concept of friend function.* **[4]**
8. *Explain the concept of overloaded constructors* in a *class with suitable example.* **[4]**
9. *Write a program to declare a class 'staff having data members as name & department. Accept this data for* 10 *staffs & display names of staff that are* in cm *department.* **[8]**
10. *Define class with it's syntax.* **[2]**
11. *Write any two rules* to *define friend function.* **[2]**
12. *What* is *copy* constructor?
13. *Write any two characteristics of static member* function.
14. *How* do *we invoke* a constructor? **[2]**
15. *Explain how memory* is *allocated* to an *object of* a *class with diagram.* **[4]**
16. *Write any four rules* to *define* constructor in a *class.* **[4]**
17. *Write a program to define a class student having data members name and roll* no. *Accept and display data for one object.* **[4]**
18. *What* is destructor ? *Give ies syntax. How many* destructors can be *defined* in a *single class* ? **[4]**
19. *Write a program* to *declare a class staff having data members as name and post. Accept and display data for five staff members. (Using array of object)* **[4]**
20. *Explain object* as *function argument.* **[4]**
21. *How many ways we* can *define member function* in *class* ? *Give it's syntax.* **[4]**
22. *Explain constructor with default argument.* **[4]**
23. *Define* constructor. *State any two type of constructor.* **[2]**
24. *State any two access specifier with example.* **[2]**
25. *Define* constructor *overloading.* **[2]**

26. *Explain any two visibility modes with example.* **[4]**
27. *Explain any two' types of* constructor *with syntax and example.* **[4]**
28. *Explain the concept of destructor in* a *class with example.* **[4]**
29. *Write general form of member function, definition out of class.* **[2]**
30. *Define constructor and destructor.* **[2]**
31. *Write syntax to declare constructor.*[2]
32. *Explain multiple constructor in class with example.* **[4]**
33. *List any four properties of constructor function.* **[4]**
34. *List four types of constructors.* **[2]**
35. *Write example code of constructor with default argument (example code of constructor, only, not whole program)* **[2]**
36. *Explain concept of overloaded constructor in aclass with example.* **[4]**
37. *How memory is allocated to the objects of class, explain with diagram.* **[4]**
38. *State any four characteristics of static data members.* **[4]**
39. *How function is defined outside of class, write general syntax and example of same.* **[4]**
40. *State any four characteristics of constructor.* **[4]**
41. *Define friend function. Write syntax of declaring it.* **[4]**
42. *Write* a *program to declare class 'staff having data members* as *name and post. Accept this data for* 5 *staffs and display name of staff who are HOD.* **[8]**
43. *Differentiate between constructor and destructor.* **[4]**
44. *What is over loaded constructor in* a *class* ? *Explain .with example.* **[4]**
45. *Write* a *program to create* a *class "student" having data member* as *name, roll no. and percentage* to *read and display details for 10 students.* **[4]**
46. *Explain : (;) Static member function   (ii) Friend function*   **[4]**
47. *Explain syntax for declaring the function inside the class and outside the class with example.* **[4]**
48. *Explain the concept of parameterized constructor with example.* **[4]**
49. *Explain copy constructor with example.* **[4]**
50. *Write* a *program to show use of passing object* as a *parameter to function showdata () for* a *class "student" having data member* as *name and roll no. & member function* as *getdata ().***[4]**
51. *Explain memory allocation for object with example.* **[4]**
52. *Write* a *program* to *create* a *class "employee" with data member* as *name, designation and basic salary* & *gross salary. Create member functions* as *getdata () to read and showdata () to display details. Create sum () as friend function* to *calculate gross salary.* gs = *bs + 0.5 * bs + 9.0 * bs ;* **[8]**
53. *Write only errors if any from following code.*
    class abc
    { private : int x ;
    public : void getdata ( ) ;
    { cout < < "Enter·data" ;
    cin«x;}
    };