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| Semester: August 2022-December 2022 | | |
| Maximum Marks: 30M | Examination: In-Semester Examination | Duration :1 hr 15 min |
| Programme code: 01 Programme: UG | Class: FY/SY/TY/LX MTECH | Semester: I/II/III/IV/V/VI/VII/VIII (SVU 2020) |
| Name of the Constituent College: K. J. Somaiya College of Engineering | | Name of the department: COMP/ETRX/EXTC/IT/MECH |
| Course Code: 116U06O511 | Name of the Course: Mobile Application Dev.-Flutter | |

| Question No. | | Max. Marks |
|--------------|---|------------|
| Q1 | 1) Create a class called BankClient that have 3 private attributes : a) Id which is generated automatically and represents the order of the client in the bank Database (starting from 1 and can't be changed). b) Name (can't be changed) c) Balance has 3 methods (get , add , subtractIfPossible). | 10 M |
| | <p style="text-align: center;">OR</p> 1) Create a class " Client " that have 2 private attributes : a) Name (can't be changed). b) PurchasesAmount (double) have 2 methods (get , add). 2) Create a constructor that initializes the name. 3) Create a class " LoyalClient " that has 1 private attribute : a) PurchasesAmount (double) have 1 method (get). 4) Create a method " discount " that assigns to PurchasesAmount (subclass) the value of PurchasesAmount (superclass) after a reduction of 10%. | 10M |
| Q2 | Explain following terms in DART programming with the help of example (Any 2): 1. Higher Order functions 2. Lexical Closure 3. Interfaces | 10 M |
| Q3 | Fill in the blanks with proper widgets in the given main.dart file with reference to the given flutter app GUI: drawer: Drawer(child: __1__(| 10 M |

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    ____2____: [
      DrawerHeader(
____3____: ____4____(color: Colors.redAccent[200]),
      child: Row(
        mainAxisAlignment: MainAxisAlignment.spaceEvenly,
        children: [
          Icon(____5____),
          Text( ' ____6____ ',
            style: TextStyle(color: ____7____, fontSize: 20),
          ),
          CircleAvatar(
            child:
____8____('https://encrypted-tbn0.gstatic.com/images?zc'),
            radius: 40,
          )
        ],
      ),
      ListTile(
____9____: Icon( Icons.notifications,color:Colors.black,),
        title: Text( 'Notification',
          style: TextStyle(color: Colors.black),
        ),
      ListTile(
____10____: Icon( Icons.settings, color: Colors.black,),
        title: Text( 'Settings', style: TextStyle(color:
Colors.black),
      ),
      ListTile(
____11____: Icon( Icons.person, color: Colors.black, ),
        title: Text( 'My ID',style: TextStyle(color: Colors.black),
      ),
      onTap: () => ____12____(context,
        ____13____(builder: (____14____) => ShowId()))),

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    ],
    ),
    ),
    bottomNavigationBar: ____15____(
      ____16____: [
        BottomNavigationBarItem( icon: Icon( Icons.home,
        color: Colors.white,)),
        ____17____: 'Home'),
        BottomNavigationBarItem( icon: Icon( Icons.search,
        color: Colors.white,)),
        ____18____: 'Search'),
        BottomNavigationBarItem(icon:
        Icon(Icons.menu,color: Colors.white,)),
        ____19____: 'Menu'),
      ],
      ____20____: Colors.red,
    ),

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