CLASS XII
POST MID TERM EXAM 2024- 2025
SUBJECT: COMPUTER SCIENCE
SET B1

Time allowed: 3 Hours **Maximum Marks: 70**

General Instructions:

Set B1	Set B2	Answers	Marks
1.	5	d. COUNT (*)	(1)
2.	6	a. Wi-Fi	(1)
3.	7	d. Degree	(1)
4.	9	a. ES#NE#IO# d. EC#NB#IS#	(1)
5	1	a. HTTP	(1)
6	2	a.True#False	(1)
7	3	a. PAN	(1)
8	4	a. con.cursor()	(1)
9	10	c. Simple Mail Transfer Protocol	(1)
10	8	b. GENERATIVE ai I$$ovatio$	(1)
11	12	True	(1)
12	13	b. Modulator	(1)
13	11	b. MAC	(1)
14	15	b. tuple/tuples	(1)
15	14	c. F.seek(-33,2)	(1)
16	16	a. The total number of employees in the table	(1)
17	17	(ii) 3#4#	(1)
18	18	a. Update Personality set Mood=”Happy” where Mood=”Sad”;	(1)

19	19	Packet switching	(1)
20	20	a. Both A and R are true and R is the correct explanation for A	(1)
21	21	d. A is true but R is false	(1)

22.	24	Foreign keys - allow us to place related data into multiple tables and then link them together to keep their integrity. Suitable example can be provided	(2)
23.	22	(i) While circuit switching dedicates a specific path for the duration of the connection, packet switching breaks data into packets that travel independently across the network. (ii) HTML is commonly known as the language of the web. HTML's primary purpose is to display content, given in a text-based document, in a graphical form in the browser. In contrast, XML allows different applications to exchange and store data and its structure in a way that is universally understood.	(2)
24	26	a. RICHA JAIN SURBHI SINHA LISA THOMAS IMRAN ALI ROSHAN SINGH b. 5	(2)
25.	23	Alter Table Watch Add Column (Company varchar2(20)); Alter Table Watch Add Primary key (WatchId);	(2)
26.	25	-22 # 40 # -9 # 13 #	(2)

27. 27

a)

COUNT (*)	CODE
2	BB3

b)

Distinct CODE
BB1
BB2
BB3
BB4
BB5

c)

NO	NAME	TDATE	KM	CODE	NOP
106	RAVEENA	2016-04-21	80	BB5	4
105	AHMED KHAN	2015-01-10	75	BB4	2

d)

NO	NAME	TDATE	KM	CODE	NOP
102	VEDIKA SHARMA	2016-04-21	100	BB2	45
103	TARUN RAI	2016-03-23	350	BB3	42
104	JOHN	2016-02-13	90	BB3	40

(2)

28.	28	(i) Network bandwidth is a measure of the data transfer rate or capacity of a given network. (ii) FTP requires authentication for access, while HTTP requires no authentication by default. FTP is used to transmit files among different hosts. In contrast, HTTP transfers web pages between a client and a server.	(2)

29.	29	def changegender() : f = open("Biopic.txt","r") lines = f.read() for i in lines.split() : if i=='he' : print('she') else print (i) f.close()	(3)
30.	30	A list, City contains the following record as list elements: [Citycode, Cityname, Population_in_Million] Each of these records is nested together to form a nested list. Write the following user-defined functions in Python to perform the specified operations on the stack named city. (i) Push_element(City): It takes the nested list as an argument and pushes a list object containing the name of the city whose population is less than 20 Million. (ii) Pop_element(): It pops the objects from the stack and displays them. Also, the function should display "Stack Empty" when there are no elements in the stack. For example: If the nested list contains the following data: City=[[11,"NewDelhi",30],[22,"Mumbai",20],[33,"Kolkata",15],[44,"Chennai",11]] The output should be: [33,"Kolkata",15] [44,"Chennai",11] Stack Empty	(3)
31.	31	15@ 15@ 7@ 15@ 7@ 9@	(3)
32	33	a. SELECT NAME, ALLOWANCE FROM WORKER, PAYLEVEL WHERE ALLOWANCE.PLEVEL = WORKER.PLEVEL b. DESC WORKER; c. SELECT COUNT(*), DESIGN FROM WORKER GROUP BY DESIGN; d. SELECT NAME FROM WORKER WHERE DOJ>"2008-12-01":	(4)

33	32	def Accept():
		fh = open(“result.csv”,”a”,newline=””)
		stwriter = csv.writer(fh)
		data = []
		header = ['STUDENT ID', 'NAME', 'GAME', ‘RESULT’]
		data.append(header)
		id = input("Enter ID : ")
		name = input("Enter Student Name : ")
		game = input("Enter Game Name : ")
		res = input(“Enter Result :”)
		data.append([id, anime, game, res])
		stwriter.writerow(data)
		fh.close()
		def woncount():
		fh = open(“result.csv”,”r”,newline=””)
		stu = csv.reader(fh)
		s = 0
		for r in stu:
		if r[3].upper()==”WON” :
		s=s+1
		print(“The no of students who won is “, s)
		fh.close()	

34	34	a. SELECT * FROM WATCHES WHERE WATCH_NAME LIKE “%TIME”; b. SELECT WATCH_NAME, PRICE FROM WATCHES WHERE PRICE BETWEEN 5000 AND 15000; c. SELECT SUM(QTY_STORE) FROM WATCHES WHERE TYPE =”UNISEX”; d. SELECT WATCH_NAME, QTY_SOLD FROM WATCHES, SALE WHERE WATCHES.WATCHID=SALE.WATCHID AND QUARTER=1;	(4)

35	35	import pymysql
		db=pymysql.connect(host="localhost",user="root",password="tiger")
		mycur=db.cursor()
		def add():
		rno= int(input(" Roll No : "))
		name = input(" Name : ")
		dob=input("Date of birth : "))
		fee=int(input(" Fees : "))
		mycur.execute(“ use school”)
		sql = "insert into student values({},'{}',{},{})". format
		(rno,name,dob,fee)
		mycur.execute(sql)
		db.commit()
		def view():
		mycur.execute(“ use school”)
		sql = "select * from student where fee>5000 ”
		mycur.execute(sql)
			(4)

		f=mycur.fetchall() for i in f : print(i)	

36	36	def CreateEmp():
		f1=open("emp.dat",'ab')
		eid=input("Enter E. Id")
		ename=input("Enter Name")
		designation=input("Enter Designation")
		salary=int(input("Enter Salary"))
		l=[eid,ename,designation,salary]
		pickle.dump(l,f1)
		f1.close()
		def display():
		f2=open("emp.dat","rb")
		try:
		while True:
		rec=pickle.load(f2)
		if rec[2]!=”Senior Manager”:
		print(rec[0],rec[1],rec[2],rec[3])
		except:
		f2.close()	

37	37	a. star topology with admin-finance, admin-academic, admin-main (50 + 50 + 60 = 160 m cable length) b. Main building as it has maximum number of computers c. Switch/hub is required at every location as a number of machines are to be connected. Repeater is not required as the distance between the buildings is less than 75m. d. optical fibers e. Switch will be used to connect computers in each block to form a local area network	(5)