D.A.V.GROUP OF SCHOOLS, CHENNAI & RANIPET

COMMON QUARTERLY EXAMINATION – 2022-2023
COMPUTER SCIENCE(083) – ANSWER KEY
CLASS – XI DATE : 14.09.22

PART – A
SECTION – I (Answer any 15 out of 21)

1. Operating system. Language processor. Utility software. - any 1 – 1m
2. 3000 TB or 3072 TB or 3 x 2^{10} -1m
3. i) else ; iii) pass - ½ + ½
4. : (colon) -1m
5. c – pass -1m
6. 6 -1m
7. and, *=, < %, ** - ½ + ½
8. a. OS, c. C++ - ½ + ½
9. Punctuator - 1m
10. a. list, c. dictionary - any 1 – 1 m
11. 4 - 1m
12. -1 - 1m
13. ROM - 1m
14. 1stmark, “A Bug”s Life” - any 1 – 1m
15. A = P* (1 + r/n) ** (n*t) - 1m
16. WoOags - ½ for 1st 3 char, ½ for next 3 char
17. 55
    41 - ½ + ½
18. (2*r + (4*p) / (3*q)) ** 0.5 - base – ½ + exponent – ½
19. iii) <class ‘float’> - 1m
20. Options ii), iv) - ½ + ½
21. Option iii) - 1m

SECTION – 2

Any 4 sub parts from each question. Each question carries 1 mark (4+4)

22. i) 461.475
    ii) 2800.098
    iii) 1AA.238
    iv) 10000001.011
    v) 63B.38

23. Write the result for **any 4** :
    i) Exa$m
    ii) ['kEYERROR, iNDEX', 'RROR']
    ['K', 'y', 'rror, Ind', 'xError'] -------- without swapcase()
    iii) ('Quart', 'e', 'rly exam')
    iv) inkle twinkle little s
    v) aahaah

PART – B
SECTION – 1

24. Each difference – 1 mark

25. Difference – 1mark , example – 1 mark
    (OR)
    Difference – 1mark , example – 1 mark

26. semk
    ngi - 1+1

27. Rewrite code after removing errors
    X=12;Y=4
    Invalid relational operator <=
    ValueError for int(). int(X/Y)

If-Else wrong case if-else ½ *4=2

28. Start & Stop boxes – ½
    Input box to read 2 numbers – ½
    2 decision boxes – ½
    3 print boxes – ½

29. Explanation – 1 mark, Example – 1 mark

(OR)

    Each form – 1 mark

30. Frame Logical Expressions : ½ *4 = 2
    i) 500 % **X** == 0 and 100 <= **X** <= 300
    ii) **DESIG** == "Manager" and **SALARY** > 75000
    iii) **S**[-1] in "aeiouAEIOU"
    iv) abs(**VAL**) %2 == 0

31.
```
if AVG >= 40:
        if AVG >=75 :
                if AVG >= 90 :
                        Grade= 'A'
                else:
                        Grade= 'B'
        else:
                Grade= 'C'
else:
        Grade= 'D'
```
- each condition- ½ mark

32.
```
K =1000                                          ½
while K <= 9999 :                                ½
        if K % 7 == 0 :                          ½
                RES = K
        K +=1                                    ½
print( "The biggest 4 digit number divisible by 7 is " , RES)
```

33. Write the output :
    18.125##-2^-3: each value – ½ , sep&end – ½

SECTION – II

34. Read 1st number
    Initialize Max, Min
    Loop condition
    Check and update Max, Min
    Read within loop
    Print output in the format ½ *6=3

(OR)

Read limit + loop
Input details
Check for class
Check for stream
Print Fees
Check for invalid class/stream ½ *6=3

35. New String: **QY*TuH*Op*DO*El*No*** with 11 characters
    - For the words in the print(New String , with, characters)– 1
    - Value of k (11) - 1
    - 1st 10 characters – ½
    - Last 9 characters – ½

36.
```
itNy
tNy
Ny
```
- each line 1 mark

37. Outer loop
Inner loop
Print @ per line
Print alphabet ½ *4=2
Logic to get next alphabet 1m

(OR)

Outer loop
Inner loop
Print values in each line
Print hyphen & sum ½ *4=2
Initialization & Accumulation 1m

SECTION- III

38. i) Logic for choice 1
Logic for choice 2
Print menu, loop condition, exit loop 1 *3=3

ii) input, initializations
loop & logic to extract digits
Accumulate digits raised to powers of 8
Display the octal & decimal number ½ *4=2

39. i) Initializations, display result
outer loop
factorial
accumulation, alternating sign logic ½ *4 = 2

ii) read limits; initializations
outer loop
inner loop
check original & reversed number & print ½ *4=2
reverse logic 1m

(OR)

i) Read n
Initialization of accumulator
Outer loop
Accumulate & display ½*4=2
Factorial logic 1m

ii) Read limits + initializations
Loop condition
Generate the number in the series & print if it falls in the limits
Appropriate updation ½ *4=2

40. i) Read 1st word
Loop condition
Check for 1st & last letter for any case
Concatenate the word
Read rest of the words
Display ½ *6=3

ii) Read word, initialization
Loop to traverse each character
Check for ascii & update
Print maximum ascii with the respective character
