**KERALA AGRICULTURAL UNIVERSITY**
B.Sc. (Hons.) Forestry 2017 Admission
I Semester Final Examination-March-2018

Bass.1101    Information & Communication Technology (1+1)

Marks: 50
Time: 2 hours

**I**    **Choose the correct answer**    (10x1=10)

1   A 64 bit computer uses ........ system

   a   Binary        b   Ternary        c   octal        d   64-base

2   It is not an output device

   a   Camera        b   Monitor        c   Speaker        d   Printer

3   Choose the odd one out

   a   Ubuntu-mate        b   Kubuntu        c   Edubuntu        d   Redhat

4   1.11 in binary represents

   a   1        b   1.25        c   1.75        d   1.5

5   This is not an object oriented language

   a   C        b   C++        c   Smalltalk        d   Java

**Match the Following**

| | | | |
|---|---|---|---|
| 6 | ls | a | Windows10 |
| 7 | Microsoft Product | b | System Software |
| 8 | Numbers of symbols in Octal | c | Lists the files |
| 9 | Device Driver | d | 8 |
| 10 | Liber Office | e | Application Software |
| | | f | 4 |

**II**    **Write Short notes on any FIVE of the following**    (5x2=10)

1   Versions of Windows Operating Systems

2   POST

3   Compiler and Interpreter

4   Input Devices

5   Network Topology

6   Note on p and h1 HTML tags

7   Difference between permutation and permutationa in Microsoft excel or Liberoffice Calc

**III**    **Answer any FIVE of the following.**    (5x4=20)

1   Explain the following functions in Microsoft Excel or LiberOffice Calc

   a   sum        b   average        c   stdev

2   What is the output of following function if n=350

```
DO
INPUT "A non negative integer ", n
LOOP UNTIL n >= 0
value = 0
m = n
WHILE m <> 0
value = 10 * value + m MOD 10 'm mod 10 gives remainder when m is divided by 10
m = m \ 10
WEND
PRINT USING "#####"; value
```

3   Write a short note on algorithm with its characteristics and flowchart.

4   Write a Microsoft Excel or LiberOffice calc function to calculate sum accrued for initial principal in B1 and rate of interest in D1. Total amount accrued at the end of a given quarter as shown in following table.

| Principal | 1000 | rate of interest | 8 |
|---|---|---|---|
| Quarters | Sums accrued | Partial Interest | |
| 1 quarter | 1000.00 | 20.00 | |
| 2 quarter | 1020.00 | 20.40 | |
| 3 quarter | 1040.40 | 20.81 | |
| 4 quarter | 1061.21 | 21.22 | |
| End of 4th quarter | 1082.43 | | |

5   Write a function in Microsoft Excel or Liberoffice calc to calculate compound interest

6   What is the effect of following html code?
    <font color="red" onmouseover="color='green'" onmouseout="color='red'">
    Check the font effect by moving the mouse over the text </font>

7   Write two functions in Microsoft Excel or LiberOffice Calc as follows:
    If the number of days attended is greater than total days, percentage is wrong entry in the third column. Percentage is rounded to integer to avoid fractions in attendance marks. If the percentage is less than 80, then shortage of attendance, a student gets between 80% and 100%, he will be given marks from 1 to 5 depending upon his perecentage of marks, for 80% is 0, for 81% is 0.25 i. e. For every percentage above 80, student gets 0.25 marks. If the perecentage is less than 80, it is "Shortage of attendance", If the number of days atteded is greater than total days, it is "wrong entry" in percentage column and attendance marks (in 3rd and 4th column). So write functions for perecentage and Attendance marks to automate the function

| No of days attended | Total days | Percentage | Attendance marks |
|---|---|---|---|
| 24 | 25 | 96 | 4.00 |
| 23 | 27 | 85 | 1.25 |
| 15 | 22 | 68 | Shortage of attendance |
| 25 | 30 | 83 | 0.75 |
| 16 | 20 | 80 | 0.00 |
| 17 | 16 | wrong entry | wrong entry |
| 18 | 12 | wrong entry | wrong entry |

## IV   Write an essay on any ONE of the following

**(1x10=10)**

1   Write a note on Computer Network, types of networks and Internet

2   Write a note on Generation of Computers

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