



UCSC

University of Colombo, Sri Lanka

University of Colombo School of Computing



**DEGREE OF BACHELOR OF INFORMATION TECHNOLOGY
(EXTERNAL)**

Academic Year 2022 — 1st Year Examination — Semester 1

IT1306 — Free and Open Source Software for Personal Computing

Multiple Choice Question Paper

(Two hours)

Important Instructions

- The duration of the paper is **Two (2) hours**.
- The medium of instructions and questions is English.
- This paper has **40 questions** on **8 pages**. Answer **all** questions.
- All questions are of the **MCQ** (Multiple Choice Questions) type.
- Each question will have **5 (five)** choices with **one or more** correct answers.
- All the questions will carry equal marks.
- There will be a penalty for incorrect responses to discourage guessing.
- The mark given for a question will vary from -1 (All the incorrect choices are marked & no correct choices are marked) to +1 (All the correct choices are marked & no incorrect choices are marked). However, **the minimum mark per question would be zero**.
- Answers should be marked on the **special answer sheet** provided.
- Note that questions appear on both sides of the paper. If a page is not printed, please inform the supervisor/invigilator immediately.
- Mark the correct choices on the question paper first and then transfer them to the given answer sheet which will be machine marked. **Please completely read and follow the instructions given on the other side of the answer sheet before you shade your correct choices.**
- Calculators are **not** allowed.
- *All Rights Reserved*. This question paper can NOT be used without proper permission from the University of Colombo School of Computing.

- 1). Which of the following keys must also be used to select multiple worksheets in LibreOffice Calc while clicking the individual sheet tabs?

a). Ctrl	b). Alt	c). Shift
d). Insert	e). Ctrl + Shift	

- 2). What is the minimum font size LibreOffice Writer supports?

a). 1	b). 2	c). 3
d). 4	e). 5	

- 3). What is the default file extension of LibreOffice Writer?

a). .doc	b). .odw	c). .ott
d). .dot	e). .odt	

- 4). Which of the following is not a valid address data source in LibreOffice Writer?

a). Spreadsheet	b). JDBC	c). ODBC
d). Google contacts	e). Text	

- 5). In which menu of LibreOffice Writer has the mail merge wizard?

a). Tools	b). Format	c). File
d). Insert	e). Form	

- 6). Which of the following options appears when inserting a hyperlink in LibreOffice Writer?

a). Place in document, mail, document, new document
b). Place in document, new document
c). Internet, mail
d). Internet, mail, document, new document
e). Internet, mail, import, document

- 7). In which menu of LibreOffice Writer provides the option to password protect a document?

a). File -> Properties	b). File -> Export as	c). Tools -> Protect Document
d). File -> Digital Signatures	e). File -> Save as...	

8). In which menu is the merge cells command found in LibreOffice Calc?

- | | | |
|------------|------------|-----------|
| a). Format | b). Edit | c). Style |
| d). Sheet | e). Design | |

9). What is the default cell content alignment in LibreOffice Calc?

- | |
|---|
| a). Text right aligned and numbers left alignment |
| b). Text left aligned and number right alignment |
| c). Both text and numbers left aligned |
| d). Both text and numbers left aligned |
| e). Both text and numbers center aligned |

10). Which key combination can be used to insert a line break within a cell in LibreOffice Calc?

- | | | |
|----------------------|-------------------|-----------------|
| a). Ctrl+Enter | b). Alt+Enter | c). Shift+Enter |
| d). Arrow down+Enter | e). Shift+N+Enter | |

11). Which of the following file formats supported by LibreOffice Calc allows to save a spreadsheet document preserving document formatting?

- | | | |
|----------|-----------|----------|
| a). .xls | b). .xlsx | c). .ods |
| d). .odt | e). .csv | |

12). Where a Cell address appears in LibreOffice Calc?

- | | | |
|-----------------|---------------------|-----------------|
| a). Formula bar | b). Title bar | c). Address bar |
| d). Status bar | e). Calculation bar | |

13). Which of the following is/are correct syntax for the **SUM** function in LibreOffice Calc?

- | |
|---------------------------|
| a). =SUM(A4:D10) |
| b). =SUM(D4,D6,D7,D8,D10) |
| c). =SUM(A4;D10) |
| d). =SUM(A1;D1,P1,K1;M6) |
| e). =SUM(A1,100,35) |

Use the information from the following spreadsheet to answer the questions 14 and 15.

*** Different assignment marks are in different percentages.

*** All the assignments are considered for the calculation of the “Final Mark”.

*** “Final Mark” is calculated by taking 70% from the Paper and 30% from Assignments.

*** Formulas MUST NOT hard-code weight values.

*** A formula written for a particular cell will be dragged down the column to obtain same calculation for the rest of the students.

	A	B	C	D	E	F	G
1	Paper Mark Weight for Total (%)			70			
2	Assignment Mark Weight for Total (%)			30			
3	Index No	Paper Mark (100%)	Assignment 1 (50%)	Assignment 2 (80%)	Assignment 3 (60%)	Final Mark (100%)	Grade
4	1800243	78	45	67	44		

Consider the following criteria in assigning a grade to a student.

Grade	Criteria
A	The Final Mark should be 90 or above
B	The Final Mark should be 80 or above
C	The Final Mark should be 70 or above
D	The Final Mark should be 60 or above
E	The Final Mark below 60

14). Which of the following LibreOffice Calc formula(s) correctly calculate(s) “Final Mark” at cell F4?

- a). =(B4*\$D\$1/100)+(AVERAGE(C4:E4)*\$D\$2)
- b). =(B4*\$D\$1/100)+(SUM(C4:E4)/190*\$D\$2)
- c). =(B4*\$D\$1/100)+(SUM(C4:E4)/100*\$D\$2)
- d). =(B4/100*\$D\$1)+(((C4*2)+(D4/8*10)+(E4/6*10))/300*\$D\$2)
- e). =(B4*\$D\$1/100)+(SUM(C4:E4)*\$D\$2)

15). Which of the following LibreOffice Calc formula(s) correctly calculate(s) “Grade” at cell F4?

- a). =IF(F4=90,“A”,IF(F4=80,“B”,IF(F4=70,“C”,IF(F4=60,“D”,“E”))))
- b). =IF(F4>89,“A”,IF(F4>79,“B”,IF(F4>69,“C”,IF(F4>59,“D”,“E”))))
- c). =IF(F4>=90,“A”,IF(F4>=80,“B”,IF(F4>=70,“C”,IF(F4>=60,“D”,“E”))))
- d). =IF(F4<=60,“E”,IF(F4<=70,“D”,IF(F4<=80,“C”,IF(F4<=90,“B”,“A”))))
- e). =IF(F4<60,“E”,IF(F4<70,“D”,IF(F4<80,“C”,IF(F4<90,“B”,“A”))))

16). Which of the following chart types are available in LibreOffice Calc?

- | | | |
|------------------|------------|---------------|
| a). XY (Scatter) | b). Bubble | c). Histogram |
| d). Surface | e). Radar | |

17). What is the key combination used in LibreOffice Impress to start a slide show from the current slide?

- | | | |
|--------------|-------------|-------------|
| a). Shift+F5 | b). Alt+F5 | c). Ctrl+F5 |
| d). F5 | e). Ctrl+F6 | |

18). Which view of LibreOffice Impress displays the “Rehears Timing” icon in the slide view bar?

- | | | |
|------------------|------------------|------------------|
| a). Normal | b). Outline | c). Slide Sorter |
| d). Master Slide | e). Master Notes | |

19). Which of the following tools gives an extensive list of alternative words in LibreOffice Writer?

- | | | |
|--------------|----------------|---------------|
| a). Synonyms | b). Auto Text | c). Thesaurus |
| d). Redact | e). Smart word | |

20). When an image is anchored into a page in LibreOffice Writer:

- | |
|--|
| a). Image is associated with a paragraph and moves with the paragraph |
| b). It keeps the same position in relation to the page margins |
| c). Image is associated with a character but is not in the text sequence |
| d). It does not move as you add or delete text or other images |
| e). Image is placed in a frame |

21). Which of the following options in LibreOffice Writer allows the text flows around the image?

- | | | |
|------------------|-------------------|-----------------------|
| a). Wrap Through | b). In Background | c). Optimal Page Wrap |
| d). Wrap around | e). Page Wrap | |

22). Which of the following feature in LibreOffice Writer allows you to jump to specific text passages and objects in a single document?

- | | | |
|-------------------|---------------------|----------|
| a). Reference | b). Hyperlink | c). Cite |
| d). Symbolic link | e). Cross reference | |

23). Which of the following is/are **true** with respect to Digital Signing in LibreOffice Writer?

- | |
|---|
| a). Only the checksum is stored together with the document |
| b). The checksum and your public key are stored together with the document |
| c). The checksum and your private key are stored together with the document |
| d). A personal key, known as a certificate is required to sign a document digitally |
| e). Both private and public keys are used to sign the document |

24). Which of the following tools in Gimp software is used to darken the color pixels in an image?

- | | | |
|-------------------|----------------|---------------|
| a). Smudge | b). Blend Tool | c). Burn Tool |
| d). Convolve tool | e). Magic wand | |

25). Which of the following tools in Gimp software is used to remove wrinkles in photographs?

- | | | |
|------------|----------------|----------|
| a). Smudge | b). Burn | c). Heal |
| d). Clone | e). Magic wand | |

26). Which of the following transformation tools in Gimp software is used to shift one part of an image, a layer, a selection or a path to a direction and the other part to the opposite direction?

- | | | |
|------------|-----------------|-----------|
| a). Shear | b). Perspective | c). Scale |
| d). Rotate | e). Flip | |

27). Which of the following layer properties in Gimp software can be used to control the transparency of a layer?

- | | | |
|------------------|---------------|----------------|
| a). Visibility | b). Opacity | c). Layer mask |
| d). Transparency | e). Luminance | |

28). Which of the following is an invalid field data type in LibreOffice Base?

- | | | |
|-----------|--------------|----------|
| a). Image | b). Currency | c). Memo |
| d). Audio | e). Text | |

29). Which of the following is/are variable class(es) not supported in LibreOffice Base?

- | | | |
|-------------|------------|-------------|
| a). Numeric | b). String | c). Boolean |
| d). Binary | e). Object | |

30). Which of the following is an invalid field data type in LibreOffice Base?

- a). GNU General Public License
- b). Mozilla Public License
- c). Apache License
- d). GNU Lesser General Public License
- e). Oracle Software License

31). Which of the following tools in Gimp allows you to select a drawing with the free-hand?

- | | | |
|---------------------|-----------------------|-------------------------|
| a). Fuzzy selection | b). Eclipse selection | c). Rectangle selection |
| d). Lasso | e). Magic wand | |

32). Which of the following has the best description for the “select by color” tool?

- a). Selects contiguous regions, with all parts connected to the starting point by paths containing no large gaps
- b). Selects all pixels that are sufficiently similar in color to the pixel you click on, regardless of where they are located
- c). Selects a region defined by strong color-changes at the edges
- d). Extracts the foreground from the active layer or from a selection
- e). Selection by drawing it with the pointer

33). GIMP cannot be used to fix imperfect digital camera images that are:

- | | | |
|---------------------|------------------|-------------------|
| a). Overexposed | b). Underexposed | c). Rotated a bit |
| d). Scaled variably | e). Out of focus | |

34). Which of the following commands uses absolute paths in Ubuntu command line?

- | | | |
|---------------------|--------------------|------------------|
| a). cd .. | b). cd / | c). cd documents |
| d). cd ~/documents/ | e). cd /home/user/ | |

35). Which of the following is/are the limitations of Free and Open Source Software?

- a). Availability of source code
- b). Compatibility with proprietary systems
- c). Extensive documentation
- d). Security
- e). Vendor support

36). LibreOffice Base is a,

- | | | |
|----------------------------|--------------------------|------------|
| a). Network Database Model | b). RDBMS | c). ORDBMS |
| d). OODBMS | e). Graph Database Model | |

37). How do you refer a primary key field included in another table in LibreOffice Base?

- | | | |
|-----------------|----------------|----------------|
| a). Foreign key | b). Public key | c). Parent key |
| d). Local key | e). Child key | |

38). In LibreOffice Base, if every non-key attribute is functionally dependent on the primary key, then the relation will be in,

- | | | |
|---------|---------|---------|
| a). 1NF | b). 2NF | c). 3NF |
| d). 4NF | e). 5NF | |

39). How does a many-to-many relationship differ from the other two kinds of relationships?

- | |
|---|
| a). Primary key fields are used for both sides of the relationship. |
| b). Three tables are used instead of two tables. |
| c). Cannot use referential integrity. |
| d). No primary key fields are used |
| e). One or more primary key field use in a table |

40). In LibreOffice Base form design view, what is the function of the control icon given below?



- | | | |
|--------------------|------------------------|-----------------|
| a). Wizards On/Off | b). Design Mode On/Off | c). Form Design |
| d). Combo Box | e). Image Control | |
