

University of Colombo, Sri Lanka







DEGREE OF BACHELOR OF INFORMATION TECHNOLOGY (EXTERNAL)

Academic Year 2023—1st Year Examination — Semester 1

IT1306 — Free and Open Source Software for Personal Computing

Multiple Choice Question Paper (2 Hours)

Important Instructions

- The duration of the paper is **2 Hours**.
- The medium of instructions and questions is English.
- This paper has 40 questions on 11 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.
- This paper consists of 100 marks and 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 or part of 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.
- Any electronic device capable of storing and retrieving text, including electronic dictionaries, smartwatches, and mobile phones, is not allowed.
- 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 i	s/are example(s) of Application	Software?
	a). Firefox	b). Unix	c). Linux
	d). MS Office	e). Assembler	
2).	Which of the following s	tatements is/are correct about S	ystem Software?
	a). Installed accord	ing to user's requirements.	
	b). System software	e communicates with hardware	devices to coordinate activities.
	c). The user interac	ts with system software.	
	d). It provides a pla	tform for running application so	oftware
	e). Used by the use	r to perform specific tasks	
3).	Consider the following s	tatements.	
	I. Oracle VM Virtual	Box is a free and open-source he	osted hypervisor for virtualization.
	II. Oracle VM Virtual	Box is developed and maintaine	d by Oracle Corporation.
	III. Oracle VM Virtual Solaris.	Box can be installed on Wind	lows, macOS, Linux, Solaris, and Open
	Which of the above state	ment(s) is/are correct?	
	a). I only	b). II only	c). I and II only
	d). I and III only	e). I, II, and III	
-	Which of the following dir3?	commands can be used to cre	eate 3 directories named dir1, dir2, and
	a). mkdir dir1 dir2	dir3	
	b). mkdir dir1, dir2	, dir3	
	c). make dir1 dir2 d	lir3	
	d). make dir1, dir2,	dir3	
	e). mkdir dir1/dir2/	dir3	
		commands can be used to chan stem using Command Line Inter	ge the directory to the Root Directory in face?
	a). cd \	b). cd home	c). cd /home
	d). cd /	e). cd home	

	e). OpenOffice Writer	
What is the default file form	at for saving documents in I	LibreOffice Writer?
a)docx	b)odt	c)xls
d)pdf	e)doc	
How to create a numbered li	ist in LibreOffice Writer?	
a). Press Ctrl + N.		
b). Use the shortcut Ct	rl + B.	
c). Select the text and	press Ctrl + C.	
d). Right-click and cho	oose "Numbering" from the	context menu.
	ing" button on the Formattin	g Toolbar. e part of the "Page Style" settings?
n LibreOffice Writer, which a). Page orientation d). Page sorting When inserting images into	b). Page layout e). Page clone	re part of the "Page Style" settings?
a). Page orientation d). Page sorting When inserting images into ng image formatting?	b). Page layout e). Page clone	c). Page borders the following statements are true regard
a). Page orientation d). Page sorting When inserting images into ing image formatting? a). Images can only be	b). Page layout e). Page clone LibreOffice Writer, which or	c). Page borders the following statements are true regarder.
In LibreOffice Writer, which a). Page orientation d). Page sorting When inserting images into ing image formatting? a). Images can only be b). The "Wrap" option	b). Page layout e). Page clone LibreOffice Writer, which or	c). Page borders the following statements are true regarder.
In LibreOffice Writer, which a). Page orientation d). Page sorting When inserting images into ing image formatting? a). Images can only be b). The "Wrap" option	b). Page layout e). Page clone LibreOffice Writer, which of allows text to flow around the not available for images.	c). Page borders the following statements are true regarder.

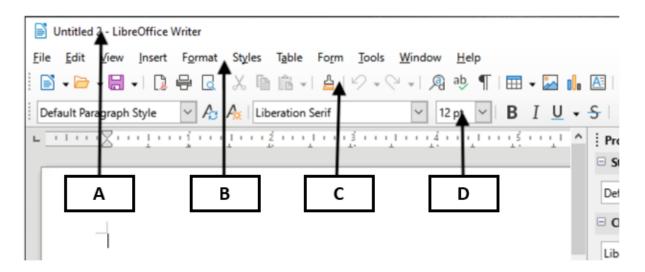
6). Which of the following examples is/are (an) example(s) for word processing applications?

b). Microsoft Word

a). Google Docs

c). Apple iWork Pages

11). Consider the following document segment in LibreOffice Writer.



Identify the parts of the main Writer window from A to D.

- a). A-Title Bar, B-Standard Toolbar, C-Formatting Toolbar, D-Menu Bar
- b). A-Menu Bar, B-Formatting Toolbar, C-Title Bar, D-Standard Toolbar
- c). A-Title Bar, B-Menu Bar, C-Standard Toolbar, D-Formatting Toolbar
- d). A-Menu Bar, B-Title Bar, C-Formatting Toolbar, D-Standard Toolbar
- e). A-Standard Toolbar, B- Title Bar, C-Menu Bar, D-Formatting Toolbar
- **12).** Consider the following statements.
 - I. Headers are portions of a document that appear at the top of every page.
 - II. The standard alignment for page numbers in the footer is left-aligned.
 - III. Headers/footers can be used to include page numbers, document information, etc.

Which of the above statements is/are correct?

a). I only
b). II only
c). I and II only
d). I and III only
e). I, II, and III

13). Consider the following table having information related to LibreOffice Writer.

	Column A		Column B	
(i)	Open a new blank document	(A)	Ctrl + V	
(ii)	Paste the copied text	(B)	Ctrl + X	
(iii)	Copy the selected text in a document	(C)	Ctrl + P	
(iv)	Cut the selected text in a document	(D)	Ctrl + N	
		(E)	Ctrl + C	
		(F)	Ctrl + B	

Match the functionalities listed on Column A with the appropriate shortcut keys listed on Column B.

a).
$$(i) - (E), (ii) - (C), (iii) - (D), (iv) - (A)$$

b).
$$(i) - (A), (ii) - (D), (iii) - (C), (iv) - (E)$$

c).
$$(i) - (D), (ii) - (A), (iii) - (E), (iv) - (B)$$

d).
$$(i) - (B), (ii) - (F), (iii) - (A), (iv) - (E)$$

e).
$$(i) - (F), (ii) - (A), (iii) - (B), (iv) - (D)$$

- 14). Which of the following statements is/are correct about Digital Signing?
 - a). It is used to validate the authenticity and integrity of a digital document.
 - b). More than one signature cannot be added to a document.
 - c). A personal key, known as a certificate is required to sign a document digitally.
 - d). It can be used for mailing labels, labels for physical file folders, and similar purposes.
 - e). A signed document shows an icon in the status bar. You should double-click the icon to view the certificate.
- 15). Which of the following types of links is/are available as an option in LibreOffice Writer?

a). Cross-references

b). Hyperlinks

c). Bookmark links

d). Web links

e). URLs

16). Which of the following keyboard shortcuts can be used to move the cell focus from anywhere on the spreadsheet to Cell A1 on the same sheet in LibreOffice Calc?

a). Ctrl+Home

b). Enter

c). Ctrl+Page Up

d). Alt+Page Up

e). Shift+Enter

17).	Consider the following formula	in LibreOffice Calc.		
	=IF(A2>=0,"Positive","N	egative")		
	In the given formula, what wou	ld be the result if the value	of cell A2 is 0?	
	a). Negative	b). Positive	c). #DIV0!	
	d). 0	e). Err:508		
18).	Consider the following formula	in LibreOffice Calc.		
	=SUM(B8,SUM(B10:B14	4))		
	Which of the following stateme	nts is/are true regarding the	e above formula?	
	a). Calculates the sum of c	cells B10 to B14 and adds t	he value to B8.	
	b). Calculates B8 minus th	e sum of the cells B10 to E	314.	
c). Calculates the multiplication of cells B10 to B14 and adds the value to B8.				
	d). Calculates the sum of c	-	•	
	e). Calculates the difference	ce of cells B10 to B14 and	adds the value to B8.	
19).	Consider the following error de "A cell or range used may	-	ch as text instead of numbers".	
			is/are described by the above error	
	a). #NAME?	b). #VALUE	c). #ERROR!	
	d). #REF	e). #NUM!		
20).	Which of the following options I. Color Scales II. Icon Sets III. Data Bars IV. AutoFormat	are types of conditional for	rmatting available in LibreOffice Calc?	
	a). I and III only d). I, II, and III only	b). II, III, and IV only e). I, II, III, and IV	c). I and IV only	

21). Consider the following spreadsheet segment in LibreOffice Calc.

SUM			× × ✓ =	B2 & " " &	C2 & ",	" & D2	
	Α	В	С	D	Е	F	G
1							
2		June	23	2010		= B2 & " " & C2	& ", " & D2
3							
4							

Which of the following functions can be used to perform the same operation as in cell F2?

a). SUM	b). PRODUCT	c). ADD
d). CONCATENATE	e). AND	

22). Consider following the LibreOffice Calc segment.

	Α	В	С
1	Student No	Mark	
2	1	55	
3	2	78	
4	3	90	
5	4	83	
6	5	45	
7	6	61	
8	7	58	
9	8	80	
10	9	70	
11	10	₁ 75	
12		=COUNTIF(B	2:B11,">75")

What could be the output for cell B12?

a). 5	b). 0	c). ERROR
d). 4	e). 6	

23). Which of the following operator(s) is/are (a) comparative operator(s) in LibreOffice Calc?

a). eq	b). =	c). &
d). <>	e). *	

- 24). Consider the following statements regarding formulas in LibreOffice Calc.
 - I. A formula must begin with equals (=) symbol.
 - II. Calc automatically adds the equals (=) symbol for the formula, when starting with the plus (+) or underscore (_) character.
 - III. You can enter formulas in two ways, either by using the Function Wizard or by typing directly into the cell or into the input line.

Which of the above statements is/are correct?

a). II and III only

b). I and II only

c). I and III only

d). I only

e). I, II, and III

25). Consider the following spreadsheet created in LibreOffice Calc. (Suppose that the cell C2 is formatted using percent value).

	А	В	С	D
1				
2		Discount Rate	10%	
3				
4				
5	Item Code	Price	Discount	
6	A001	\$500.00	\$50.00	
7	A002	\$200.00		
8	A003	\$700.00		
9	A004	\$1,000.00		
		40-0		
10	A005	\$250.00		

Which of the following formulas should be entered in cell C6 and dragged downwards to fill out the column Discount?

a). =B6*\$C\$2

b). =B6*C\$2

c). =B6*C2

d). =B6*C2/100

e). =B6*\$C2

- 26). Which of the following statements is/are true about MySQL databases LibreOffice Base?
 - a). General access to MySQL for versions of LibreOffice from 3.5 onwards is via JDBC or ODBC.
 - b). To be able to use JDBC, it is necessary to install mysql-connector-java.jar.
 - c). Creation of a new database is only possible in the internal HSQLDB format.
 - d). You can connect to a MySQL database using only ODBC.
 - e). If the MySQL server is on the same computer as LibreOffice, then the Server name cannot be set as localhost.

- 27). Consider the following statements related to the graphical table design LibreOffice Base.
 - I. The sequence of fields in a table can be changed after the database has been saved.
 - II. Only the entry of direct SQL commands can insert a field into a specific position in the table.
 - III. The properties of the tables must be set at the beginning.

Which of the above statements is/are correct?

a). I only	b). I and II only	c). I and III only
d). II and III only	e). I, II, and III	

- **28).** A student got some instructions to create a simple table in LibreOffice base and the following are those Instructions.
 - i. Create a table with the name "Students".
 - ii. The first field is "ID" with the numeric type integer as the primary key.
 - **iii.** The next field name is "Name" with the text type variable. Text length and the text size should be limited to 50 characters.

Which of the following query/queries is/are satisfying the above instructions?

- a). CREATE TABLE "Students" ("ID" PRIMARY KEY, "Name" LENGHT(50));
- b). CREATE TABLE "Students" ("ID" INTEGER PRIMARY KEY, "Name" VARCHAR(50));
- c). CREATE TABLE "Students" ("ID" PRIMARY KEY, "Name" TEXT(50));
- d). CREATE TABLE "Students" ("ID" TYPEINT PRIMARY KEY, "Name" TYPETEXT(50));
- e). CREATE TABLE "Students" ("ID" INT PRIMARY KEY, "Name" VARCHAR(50));
- **29).** Consider the following query.

DROP TABLE "University" [IF EXISTS] [RESTRICT | CASCADE];

Which of the following statement(s) is/are true about the CASCADE in the above query?

- a). Only the values of the table "University" are deleted.
- b). The deletion of the table "University" is prevented.
- c). All links to the table "University" are deleted.
- d). In the linked tables, all foreign keys are set to NULL.
- e). All views referring to the named table are completely deleted.

b). Forms	c). Reports
e). Relationships	
feature allows you to pre-	esent data in a structured and organized
b). Forms	c). Reports
e). SQL View	
ements is/are correct about slic	le masters in LibreOffice Impress?
ves as a template or the starting	g point for other slides.
on can have only one slide mas	ter.
nilar to a page style in Writer:	it controls the basic formatting of all
e two types of styles associate	ed with them: presentation styles and
n a slide master does not resu	It in changes to all the slides based on
ding (OLE) technology in Lib	inked into an Impress presentation using reOffice?
143	
ews allow you to see and org	ganize all your slides simultaneously in
ews allow you to see and org	ganize all your slides simultaneously in c). Normal view
	e). Relationships feature allows you to pre b). Forms e). SQL View ements is/are correct about slice wes as a template or the starting on can have only one slide mas milar to a page style in Writer: e two types of styles associate n a slide master does not result

a). Slide Sorter view	b). Presenter Console	c). Speaker Notes
d). Custom Animation	e). Slide Master	
). Which of the following is/a	are (an) example(s) of graphic des	sign applications?
a). Pixlr	b). InkScape	c). GIMP
d). Adobe Illustrator	e). Adobe Photoshop	
). Which of the following too	ls can be used to remove unwant	ed objects from an image?
a). Despeckling	b). Garbage Removal	c). Junk
d). Removing Red-eye	e). Artifacts	
GIMP stands for,		
a). General Image Ma	nipulation Platform	
b). GNU Icon Manipu	llation Platform	
c). General Image Ma	nipulation Program	
d). GNU Image Manip	pulation Program	
e). General Icon Man	ipulation Program	
based on color similarity?	lection tools can be used to select	ct areas of the current layer or im
a). Free Selection	b). Fuzzy selection	c). Ellipse Select
d). Foreground Select	e). Select by Color	
• Consider the following stat	ements about The Main Toolbox	in GIMP.
-	ave the option to change the fores \rightarrow Toolbox to enable, or disable	_
a). I only	b). I and II only	c). I and III only
w). I 0111j		