UNIVERSITY OF JOHANNESBURG

FACULTY OF EDUCATION

JUNE EXAMINATION 2015

UNIVERSITY
OF
JOHANNESBURG

PROGRAMME: B Ed (FET)

MODULE: METHODOLOGY AND PRACTICUM: SUPPORT ROLE

SCHOOL ICT 3A

CODE: MOFPIA3

TIME: 3 hours

MARKS: 100

EXAMINER: Dr J Batchelor

MODERATOR: Dr R Diseko

(This paper consists of 3 pages)

INSTRUCTIONS

Read the following instructions carefully before answering the questions:

1. This test is taken in a computer venue. All questions are to be completed using the indicated computer software tools. No handwritten answers may be submitted.

2. Answer all the questions.

3. You are strongly advised to save the files that you are working on at regular intervals as to minimise the effect of computer malfunctions. For this purpose, you may access an online file repository system (for example *Drop Box* or *Google Drive*) and temporarily store your files there.

4. Attach all completed files using the link "Submit Exam Files" in the ULink online environment.

5. Answer Questions 1 and 2 in a MS-Word document and question 3 in the supporting document provided.

QUESTION 1

Visual information can be presented in a multitude of ways using digital media. Two popular forms are *Infographics* and *Word Clouds*.

1.1   Tabulate the main differences between *Infographics* and *Word Clouds*.   (8)

1.2   List seven possible ways to use *Word Clouds* as a teaching and learning aid in the classroom. Make use of suitable examples to illustrate the appropriateness of use.   (14)

1.3   Create a *Word Cloud* with a suitable online application using the contents of this examination paper. Insert an image of the created *Word Cloud* in a text box in the correct space provided.   (7)

1.4   Provide a brief summary of the history of *Infographics* in the classroom.   (3)

1.5   Identify one free online tool that can be used to create an *Infographic* and write a short review this particular tool.   (6)

1.6   Name two other popular ways to present information as visual data.   (2)

(40)

QUESTION 2

2.1   What is the relationship between learning activities and learning design?   (8)

2.2   Clarify each of the following terms by providing the following:

- A short description
- Big trees (well-known figures/theorists in the field)
- An appropriate image

2.2.1   Gamification   (6)
2.2.2   Andragogy   (6)

2.3   What is the value proposition of using OER's in the South African context? (4)

(24)

QUESTION 3

Work through the activities below to develop the spreadsheet from the resource document file: *MassMix*. Massmix is a company which works with online orders. They need to adjust their data to ensure client confidentiality is protected.

3.1   Copy the data from the worksheet *Mass 1* into Sheet 2   (2)

3.2   Rename the Sheet 2 as *Mass 2*.   (2)

3.3   Change the tab colour to match the rest of the tabs.   (2)

3.4   Sort the data by Gender.   (2)

3.5   Place borders around all the cells containing data.

3.6   Format the *Yearly Spend* column as South African Rand, no decimal
       places.   (2)

3.7   Delete the data in the *Client* column and replace it with a user code
       starting at 1101. Ensure that each client is allocated a user code.   (2)

3.8   Use an appropriate formatting tool to identify all clients who pay with a
       voucher. Format the data as yellow font with light blue shading.   (2)

3.9   Refer to the *Mass3* worksheet and answer the questions in the
       spaces provided. Use the data from the *Mass2* worksheet to
       answer the questions.   (4)

3.10 Refer to the *Mass4* worksheet and use suitable functions in the
       highlighted cells.   (10)

3.11 Refer to worksheet *Max5.*

       3.11.1 Adjust the line chart on worksheet *Max5* to display only
              music and movies sales.

       3.11.2 Create a chart to display all products sold in Gauteng. Add a
              chart title. Ensure the legend is placed below the chart and
              displays the values. Shade the background in light grey and
              ensure the chart is placed in a new worksheet labelled *MaxChart.* (6)

3.12 Hide the worksheet Mass1.   (2)

Save and close the document.

(36)

TOTAL: 100

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