**Quiz 2**

STID 3113 RESEARCH METHODOLOGY IN IT **(15 MARKS)**

1. Research is a systematic investigation. State **TWO (2)** purposes of conducting a research.

- In terms of education, research can improve students’ learning skills.

- From a personal point of view, research can make you an independent thinker, can critical analysis.

**(2 marks)**

1. Briefly discuss **TWO (2)** purposes of conducting literature review.

- Through literature review, the concepts and methods related to this can be determined.

- You can synthesize, report, and criticize the areas of known information.

**(3 marks)**

1. Given a research title “**Fusion of Contrast-Adaptive Color Correction in Convolutional Neural Network for Underwater Image Enhancement in Aquaculture Fish Disease Management**”. State **TWO** section headings that can be included in the literature review section.

- Convolutional Neural Network

- Contrast-Adaptive Color Correction

**(2 marks)**

1. **Research question and research objective** are important in determining the direction of a research. Based on the given problem statement, construct potential **ONE (1)** **research question** and **ONE (1)** **research objective** that can be derived for each case.

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| --- | --- | --- | --- |
| **Case** | **Problem Statement** | **Research Question** | **Research Objective** |
| A | Social networks have had a major influence on students’ performance in recent years. These networks create many opportunities and threats for students in various fields. Addiction to social networking and its impact on students’ academic performance caused the researcher to design and conduct this study. The purpose of this study was to investigate the relationship between social networking addiction and academic performance of students. | What is the relationship between social network addiction and students’ academic performance in school? | Find out the relationship between social addiction and student academic performance. |
| B | Heart disease is one of the most critical human diseases in the world and affects human life badly. In heart disease, the heart is unable to push the required amount of blood to other parts of the body. Accurate and on time diagnosis of heart disease is important for heart failure prevention and treatment. The diagnosis of heart disease through traditional medical history has been considered as not reliable in many aspects. To classify the healthy people and people with heart disease, non-invasive based methods such as machine learning are reliable and efficient. | What is the way to classify healthy people and heart disease patients? | Find out the most effective way to classify healthy people and heart disease patients. |

**(8 marks)**

**Prepared by**

**Nor Hazlyna Harun**

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