ITGS Paper 2 Article Analysis and Evaluation Template – linked to the Questions

When teaching for Paper 2 using previous examination papers, analysing candidate responses or using a news article (the original or adapted) the most benefit will be gained if a template is used to analyse it and to structure the responses. The following can be used as a template for planning and writing the responses at a high level.

Criteria A and B should be treated as one item as the questions are designed to explore **who, what, where, when, how and why** about the use of the IT system, the components of the IT system and its relationship to the concern raised in the article.

Criterion A
Q1(a)   What is the concern about?
        Why it is a concern? What is the negative impact on one or more stakeholders?
        Has the context of the article been included?

Q1(b)   Who is the stakeholder?
        What is their use of the IT system?
        Which part of the IT system are they using?
        Has the context of the article been included?

Criterion B
Q2(a)   What is the input to the system?
        What is the output from the system?
        What processing of data/information is happening?
        What storage devices are used?
        What security/data validation is used/needed?
        What networks are used?
        What communication systems are used?
        What input and output devices are used?

        Where does the data/information come from and flow to?
        Where and when does all this happen?
        Who is involved with each of the above?

        Use the information above to describe the **steps required to use the IT system**: What does the user need to do first, second, third, …….. to use the IT system?

        Has IT terminology been used that describes the hardware and software used in each of the above?

        Has IT terminology and concepts been used that goes **beyond** that included in the article? At least three extra items are needed.

Q2(b)   What is the concern?
        How does it happen?
        Why does it happen?

        Which part of the IT system has a 'weakness' that allows the concern to happen?
        Why is the weakness there?

        Has the context of the article been included?

Criterion C

Q3   **List of stakeholders**
                What is their relationship to the IT system and the main concern?

Stakeholder Impact Structure:
For Stakeholders One and Two, and include a third if possible, describe at least three impacts each (i.e. specific consequences arising from the use of the ICT system):
                Negative Impact 1: How does the impact negatively affect the stakeholder?
                Negative Impact 2: How does the impact negatively affect the stakeholder?
                Positive Impact 1: How does the impact positively affect the stakeholder?

Analysis/evaluation of impacts – include these with the impacts, comparing and evaluating and linking them:
                Does a negative impact also have negative/positive impact on another stakeholder?
                Compare the impacts. Which impact is bigger/longer/… than another impact?
                Do some impacts have a common cause?
                Does one impact lead to another impact (positive or negative)?

                How often have the following analytical/evaluative words been used?
                        Furthermore, additionally, however, but, conversely, likewise, in addition, on the other hand, whereas, compared to, contrast with, implies, as a consequence

Conclusion:
                Overall is the impact good, bad and/or mixed for the various stakeholders?
                In what way? Refer back to the impacts to find:
                ▪ Evidence for your conclusion
                ▪ Evidence against your conclusion
                How does the evidence show your conclusion is true?

Criterion D

Q4   What is the problem or problems?
        What is the impact of the problem/s?
        What is your solution? (Only one, others will be ignored)

        Describe how your solution works?
                • technical solutions must use IT terminology and include hardware/software/input/output/processing;
                • policy, education or not-technical solutions must contain details of the policies and actions required

        First positive evaluation: Directly **apply the solution** to the problem: How does the solution solve the problem/s?

        Further **positive** evaluation/s - at least one is required:
                • How else does the solution benefit a stakeholder or the situation in another way?

        Negative evaluations – two different varieties and at least two are required:
                • Limitations of the solution:
                        o How does the solution NOT completely solve the problem/s?
                        o How else does the solution NOT benefit a stakeholder or the situation in another way?

        Conclusion:
                Is the solution effective or not for solving the problem impacts? Yes, no, limited.
                        • Evidence for being effective
                        • Evidence for not being effective
                How does the evidence show your conclusion is true?