ITGS Template
For Examinations May 2012 Onwards

Strand 1: Social / Ethical Issues
Social/ethical considerations linked to specified IT developments.
Twelve issues that must be studied are:
1.1 Reliability and integrity
1.2 Security
1.3 Privacy and anonymity
1.4 Authenticity
1.5 Intellectual property
1.6 The digital divide and equality of access
1.7 Surveillance
1.8 Globalization and cultural diversity
1.9 Policies
1.10 Standards
1.11 People and machines
1.12 Digital citizenship

Strand 2: Applications to Specific Scenarios
Scenarios based on real life situation must be used when addressing specified IT developments.
The six themes that must be studied:
2.1 Business and employment
2.2 Education and training
2.3 Environment
2.4 Health
2.5 Home and leisure
2.6 Politics and government

Strand 3: IT Systems
The terminology, concepts and tools relating to specified IT developments. The nine topics that must be studied:
3.1 Hardware
3.2 Software
3.3 Networks
3.4 Internet
3.5 Personal and public communications
3.6 Multimedia/digital media
3.7 Databases
3.8 Spreadsheets, modelling and simulations
3.9 Introduction to project management

HL Extension topics and Case Study

Questions for Analyzing Social Impacts
What are the social impacts associated with a particular IT development?
• How did the IT development emerge?
• Who are the stakeholders—individuals, institutions, societies who initiate and control the IT developments and are affected by them?
• What are the advantages and disadvantages for the stakeholders?
• What are the social impacts of the IT development on human life? These may include some or all of the following areas: economic, political, cultural, legal, environmental, ergonomic, health and psychological.
• What feasible solutions can be applied to overcome problems?

Questions for Analyzing Ethical Issues
What are the ethical issues associated with a particular IT development?
• Who is responsible?
• Who is accountable?
• What policies, rules or laws apply to the scenario?
• What are the alternative ethical decisions?
• What are the consequences of these decisions?

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Strand 1: Social and Ethical Significance
- Describe social / ethical impacts (present a balanced point of view using ITGS vocabulary and concepts).
- Describe one major problem emerging from the impacts.
- Evaluate feasible solutions to problems emerging from the scenario and evaluate why one is a better solution over the others.

Strand 2: Applications to Specific Scenarios
- Identify one of the six specific scenario themes.
- Describe the scenario: who, what, when, where and how (include the names of companies, people, and their positions).

Strand 3: IT Systems
- Identify all people, hardware, software, networks, communication technologies, data, methods, policies relating to the IT systems in the scenario.
- Define IT vocabulary related to the scenario.
- Describe IT concepts and processes (step-by-step how IT systems work).

Stakeholders
- Identify the main stakeholders: individuals, business(es), organization(s) or institution(s) in the scenario.
- Describe how the main stakeholders are affected by the IT developments and/or proposed solutions.

Source of the New Item or the Specific Scenario
- Stakeholders
- Strand 1: Social and Ethical Significance
- Strand 2: Applications to Specific Scenarios
- Strand 3: IT Systems

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