

UNIVERSITY OF COLOMBO, SRI LANKA



UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

DEGREE OF BACHELOR OF INFORMATION TECHNOLOGY (EXTERNAL)

Academic Year 2021 - 3rd Year Examination - Semester 5

IT5105: Professional Issues in IT Structured Question Paper (TWO HOURS)

To be completed by th	e candida	ate	
BIT Examination	Index	No:	

Important Instructions:

- The duration of the paper is 2 (two) hours.
- The medium of instruction and questions is English.
- This paper has 4 questions and 9 pages.
- Answer all questions. All questions carry equal marks.
- Write your answers in English using the space provided in this question paper.
- Do not tear off any part of this answer book.
- Under no circumstances may this book, used or unused, be removed from the Examination Hall by a candidate.
- Note that questions appear on both sides of the paper.
 If a page is not printed, please inform the supervisor immediately.
- Calculators are **not** allowed.
- All Rights Reserved.

Questions Answered

Indicate by a cross (x), (e.g. X) the numbers of the questions answered.

	Q	uestion	numbei	îs.	
To be completed by the candidate by marking a cross (x).	1	2	3	4	
To be completed by the examiners:					

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- Group Dynamics is the study of groups and the processes that are involved in group formation and functioning. It is a field that is diverse and has the elements of sociology, communication studies and psychology. Since groups are consists of diverse individuals interacting with each other, it is termed as a dynamic process.
- (a) List **four** (4) characteristics usually included in the elements of Group Dynamics.

(04 Marks)

	(0.1.2001225)
ANSWER IN THIS BOX	
1. Forming	
2. Norming	
3. Performing	
4. Performing	

(b) Due to the inherent nature of groups, it is important for a group to have a leader. However, each leader has his/her own style of providing direction, implementing plans, and motivating people. The description given in Column A describe styles of leadership. Write the name of the leadership style against each description in Column B.

(12 Marks)

Column A	Column B
Description	Leadership style
These types of leaders lead by acting as a father figure by taking	Paternalistic
care of their team. These leaders supply complete concern for their	
team. In return they receive the complete trust and loyalty of their	
people.	
These leaders focus their leadership on motivating their team	Transactional
through a system of rewards and punishments. They identify the	
needs of their team and give rewards to satisfy those needs in	
exchange for certain levels of performance.	
These leaders give all the rights and power to make decisions to the	Laissez-faire
team members. They allow followers to have complete freedom to	
make decisions concerning the completion of their work	
These types of leaders believe that direct supervision is the key in	Authoritarian
maintaining a successful environment for the team.	

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These leaders share the decision-making abilities with team	Democratic
members by promoting the interests of team members and by	
practicing social equality.	
The main objective of this type of leader is to work to change their	Transformational
team members' needs and to redirect their thinking	

(c) In most dynamic groups there are members with diverse personalities. List the **four** (04) main types of personalities.

(4 Marks)

ANSWER IN THIS BOX

- 1. Analyst
- 2. Diplomats
- **3.** Sentinals
- **4.** Explorers
- (d) One of the major concerns in dynamic teams is the space for conflicts. A good leader should always be aware of this as well as of the strategies for conflict resolutions. List the **five** (05) conflict resolution strategies a leader should be aware of when leading a group of dynamic individuals.

(5 Marks)

ANSWER IN THIS BOX

- 1. Discussion
- **2.** written Communication
- **3.** Mediation
- **4.** Compromise
- **5.** Voting

25 Marks

2) (a) What are the reasons accepted by law as justification for staff dismissal?

(4 Marks)

3

Index	Nο												

AN	SWER IN THIS BOX		
Mis Bre	ck of capability; sconduct each of the law; dundancy		
			mn B are associated with ethical issues in social nts of a cell in Column A with the contents of a cell in
Colu	mn B.		(8 Marks
	Column A		Column B
1	Cyberbullying	P	Content, such as pornography or violence, that is not generally thought to be appropriate for viewing by children.
2	Cyberstalking	Q	An aggressive, intentional act or behaviour that is carried out by a group or an individual, using electronic forms of contact, repeatedly and over time against a victim who cannot easily defend him or herself.
3	Adult Content	R	Uploading videos showing violence or obscenity
4	Uploading inappropriate materials	S	The repeated, unwanted, and disruptive breaks into the life-world of a victim, with whom one has no relationship (or no longer has), with motives that are directly or indirectly traceable to the affective sphere
AN	SWER IN THIS BOX		
1-> (2- S 3- P 4- F			
<u> </u>			

(b)

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index No	 	

(c) Explain the difference between hackers and crackers

(3 Marks)

ANSWER IN THIS BOX

- Hackers Test limitations of systems out of intellectual curiosity
- · Some smart and talented
- Others inept; termed "lamers" or "script kiddies"
- Crackers Cracking is a form of hacking Clearly criminal activity

(e) Following are a list of issues that related to *intellectual property* and information technology.

Plagiarism, Reverse engineering, Open-source code, Competitive intelligence, Trademark infringement, Cybersquatting

Write the name of the correct issue against the descriptions of issues given bellow from the list above.

(10 Marks)

Description	Name of the Issue
Process of taking something apart in order to build a copy of	Reverse engineering
it	
Gathering of legally obtainable information to help a	Competitive intelligence
company gain an advantage over another company who	
works on a similar project	
The unauthorized use of a name in a manner that is likely to	Trademark infringement
cause confusion, deception, or mistake about the source of	
the goods and/or services.	
Registering domain names for famous trademarks or	Cybersquatting
company names hoping the trademark's owner will buy the	
domain name for a large sum of money	
Converting an application that ran on one vendor's database	Reverse engineering
to run on another's	

25 Marks

3 (a) Briefly explain the functionality of a *Document Management System* and how it can be beneficial to an IT organization.

(6 Marks)

ANSWER IN THIS BOX

Versions and timestamps - The document management system will keep multiple versions of documents. The most recent version of a document is easy to identify and will be served up by

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default.	
Approvals and workflows - When a process needs to be changed, the system will manage both access to the documents for editing and the routing of the document for approvals.	
Communication - When a process changes, those who implement the process need to be made aware of the changes. A document management system will notify the appropriate people when a change to a document is approved.	a
State the difference between <i>Ethics</i> and <i>Business Ethics</i> ?	
tate the difference between Einics and Business Einics: (4 M	larks
ANSWER IN THIS BOX	
Ethics is a branch of philosophy that involves moral principles that govern a person's or group's Behaviour. Business ethics can be defined as the critical, structured examination of how people & institutions should behave in the world of commerce. There can be more correct answers to this question. Any suitable correct answer will be given many the correct answer will be given many the correct answer will be given the corre	&
State five (05) actions/measures that can be taken to create an <i>ethical organizational culture</i> . (5 M	larks
ANSWER IN THIS BOX	
Selecting a right leader Have a clear paragraph of structurery.	
 Have a clear purpose & strategy Everyone in the company focus on doing the right thing	
Hiring the right peopleTake actions again unethical behaviours	
• Run ethical training courses	
Reward people for doing the right thingTolerate mistakes	

(b)

(c)

onprum,	why promoting good <i>business ethics</i> is important. (4
ANSWER IN	I THIS BOX
• To gain the g	ood will of the community
	organization that operates
• To foster goo	d business practices
	ganization/employees from legal
action	
• To avoid unfa	avourable publicity
-	two (02) advantages and disadvantages of the <i>fairness approach</i> . (6) N THIS BOX
ANSWER I	N THIS BOX pach
ANSWER I Fairness appro Focuses on	n THIS BOX oach fair distribution of benefits/burdens
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harassment.	ning which is not belongs to hate speech, misinformation, obscenity,
To Minimize hate speech Encourage conflict sensit Regulate social media	n: tive reporting and multicultural awareness campaigns
Encourage victims and w	vitnesses to report hate speech related crimes
Impunity against hate cri	mes can be tackled by establishing monitoring and evaluation
	Internet and digital technologies to promote products and services. ited e-mails (spam) is considered unethical behaviour in digital marketing.
	(5 mar)
ANSWER IN THIS I	<u>30X</u>
	rketing emails are sent by businesses once you opt in to receive them. They a newsletter, sign up for services, read members-only content, or share social media.
content. These emails oft in bulk from an anonymouth	me from illegitimate email addresses, and may contain explicit or illegal ten use scare tactics, contain typos and misleading information, and are sen ous sender. They seldom contain an unsubscribe link, and if it does, that linealware. This could lead to cybercriminals gaining access to your compute evices.
Explain what whistleblowi	ing is and why it is considered as an important act? (5 mar
ANSWER IN THIS I	BOX
	ng occurs when an individual reports wrongdoing in an organisation, such or discrimination. This person is often an employee but can also be a third-

Whistleblowing is an ethical thing to do. It addresses wrongdoing and allows justice to reach the

party such as a supplier or customer.

depths of companies that otherwise may remain unexposed.

D '1	
Provide ar	n example of <i>green computing</i> and explain why green computing is important. (5 m
ANSW	ER IN THIS BOX
resource	imputing is the environmentally responsible and eco-friendly use of computers and their is. In broader terms, it is also defined as the study of designing, engineering, manufacturing disposing of computing devices in a way that reduces their environmental impact.
Assume th	nat you are developing an <i>online learning platform</i> for school children. Briefly explain h
	nat you are developing an <i>online learning platform</i> for school children. Briefly explain he <i>Online Privacy Protection</i> can be achieved in such a platform?
children's	Online Privacy Protection can be achieved in such a platform? (5 m.
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ANSW Platform guardian	Online Privacy Protection can be achieved in such a platform? (5 m. ER IN THIS BOX s catering to children must offer comprehensive privacy policies, notify parents or about its data-collection practices, and receive parental consent before collecting person
ANSW Platform guardian informat	Online Privacy Protection can be achieved in such a platform? (5 m. ER IN THIS BOX s catering to children must offer comprehensive privacy policies, notify parents or s about its data-collection practices, and receive parental consent before collecting personion from children under 13.
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