



SRI LANKA INSTITUTE OF ADVANCED TECHNOLOGICAL EDUCATION

(Established in the Ministry of Higher Education, vide in Act No. 29 of 1995)

#### Higher National Diploma in Information Technology Second Year, Second Semester Examination – 2015

Second Year, Second Semester Examination – 2013

HNDIT 2412- Software Configuration Management

Instructions for Candidates:	No. of question	is: 06
Answer five (05) questions only	No. of pages	: 02
All questions carry equal marks.	Time	:Three (03)hours

#### **Question 01**

i.	Define Software Configuration Management	(02 marks)
ii.	What are the main activities in Configuration Management?	(04 marks)
iii.	Briefly explain the above mentioned activities.	(08 marks)
iv.	Briefly explain the three (03) types of SCM libraries.	(06 marks)
		(Total 20 marks)

## **Question 02**

		(Total 20 marks)
v.	Name the three main characteristics of a Version Control System.	(06 marks)
iv.	Give three (03) examples for version control systems.	(03 marks)
iii.	List out the disadvantages in manual version control systems.	(06 marks)
ii.	Name the main functions of "Version Control System".	(03 marks)
i.	Explain the term "Version Control System."	(02 marks)

#### **Question 03**

i.		iluka installed a version control software on her machine to manage a so rite the SVN commands to perform the following functions.	oftware project.
	a.	Check whether subversion is installed.	(02 marks)
	b.	Create a repository called "svn-repos" in C drive of the computer and a	add "sub" and
		"main" two directories.	(03 marks)
	c.	Add "home.html" in tmp directory in to the 'main" directory in "svn-re	epos"
		repository.	(03 marks)
	d.	Download the "home.html" file to "work" directory in to the local mac	hine to make
		changes.	(03 marks)
	e.	Check the file structure of "svn-repos"	(03 marks)

- ii. Write short notes on the following terms.
  - a. Revision number
  - b. Repository
  - c. Revision tag

## (06 marks) (Total 20 marks)

# **Question 04**

i. ii.	How does conflicts occur in version merging? When is "syn resolved" command used?	(03 marks) (04 marks)	
iii.	Explain briefly why we use "svn log" command after updating repository?		
111.	Explain orienty why we use sviriog command after updating repository	(03 marks)	
iv.	User1 and User2 download "home.html" from the "svn-repos", User1 changes <title> tag contents and User2 changes body background color of the "home.html" file. User2 uploads the "home.html" file to the "svn-repos".&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;a. Write the command User2 used to upload the "home.html" file to&lt;/th&gt;&lt;th&gt;the "svn-repos".&lt;br&gt;(03 marks)&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;b. User1 attempts to upload "home.html", but software is not allowir upload. Explain the reason.&lt;/th&gt;&lt;th&gt;ig him to&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;(04 marks)&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;c. Write the SVN command used by User1 to identify the changes of&lt;/th&gt;&lt;th&gt;the version.&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;(03 marks)&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;(Total&lt;/th&gt;&lt;th&gt;l 20 marks)&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;Quest&lt;/th&gt;&lt;th&gt;ion 05&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;i.&lt;/th&gt;&lt;th&gt;Explain the differences between Client-server model and Distributed mod&lt;/th&gt;&lt;th&gt;el in version&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;td&gt;control.&lt;/td&gt;&lt;td&gt;(06 marks)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;ii.&lt;/th&gt;&lt;th&gt;Define Configuration Management Tool.&lt;/th&gt;&lt;th&gt;(02 marks)&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;iii.&lt;/th&gt;&lt;th&gt;Briefly explain the three classes of tools for SCM.&lt;/th&gt;&lt;th&gt;(09 marks)&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;iv.&lt;/th&gt;&lt;th&gt;Mention the user groups for whom the above tools are most appropriate.&lt;/th&gt;&lt;th&gt;(03 marks)&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;(Total&lt;/th&gt;&lt;th&gt;l 20 marks)&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;Quest&lt;/th&gt;&lt;th&gt;ion N6&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</title>		

### **Question 06**

i.	List the four (04) values which Agile development centers on.	(04 marks)
ii.	Name three (03) Agile development methods.	(03 marks)
iii.	List the common characteristics of Agile development methods mentioned	d above.
		(04 marks)
iv.	Explain the SCM approaches in different Agile development methods	(09 marks)
	(Total	20 marks)