

Politecnico di Milano

School of Industrial and Information Engineering Polo Territoriale di Como, via Anzani 42, 22100 Como prof. Giuseppe Pozzi – Business Process Modelling e-mail: giuseppe.pozzi@polimi.it, ph.: 031-332.7332

${\rm Business\ Process\ Modelling-Written\ Test\ of\ Jan\ 15}^{th},\ 2018$					
Family name	First name	Politecnico ID #			
	fully. All answers must be provided or ional sheet will be considered ¹ .	n this sheet, which must be returned at			
available for this test, and the or a project, is greater than the sheets provided by the te	or equal to 18. Use of books, handboo	st 13 points out of a total of 25 points ading those obtained with a presentation oks, lecture notes is not permitted: only nust be answered, at least partially: tests nated. Duration of the test: 2 hours.			
Exercises					
• /		ess engine, aka Workflow Management the Workflow Management Coalition).			
space reserved to your answer					

 $^{^{1}}$ **Remark**. Complete specifications whenever needed. Clarity and order will be taken into account for the evaluation.

(2) The FMH - Foot Mountain Highway is a toll highway whose customers may purchase a monthly subscription or may pay-per-passage (pay-as-you-go). A simple business process (to be optionally designed) enables a customer to enroll, providing FMH with car plate number and an e-mail address.

Every due toll is automatically computed by a CCTV system and stored by a file structured as CarPlateNumber, Location, Timestamp, Amount. A pay-as-you-go customer receives an e-mail message with the due amount after every passage under the CCTV system; a subscribed customer at the end of every month receives an e-mail message with the grand total amount, and receives a 10% discount. In any case, the payment must be received by FMH within 14 days after the request has been sent out.

Provide a reasonable schema of the outlined process(es), according to the modeling formalism of WIDE. Please, suitably model all the *pre-conditions* and *post-conditions* of every task.

(3) With respect to the process(es) in Exercise 2, design an exception that detects those customers whose payment has not been received within the proper deadline, and suitably informs the case responsible.

space reserved to your answer - exercise 5				

space reserved to your answer -	exercise 2

and provide a simple example. space reserved to your answer				
space reserved to your answer				

(4) With respect to a business process model, define the concept of independent execution paths

This part for use by the teacher, only.

Ex. 1	Ex. 2	Ex. 3	Ex. 4	Total
4	12	5	4	25