



## Politecnico di Milano

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### Business Process Modelling – Written Test of Feb 14<sup>th</sup>, 2017

Family name \_\_\_\_\_ First name \_\_\_\_\_ Politecnico ID # \_\_\_\_\_

Master Course in \_\_\_\_\_

Please, fill in this sheet carefully. All answers must be provided on this sheet, which must be returned at the end of the test. No additional sheet will be considered<sup>1</sup>.

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**Rules.** The examination is passed if the student obtains at least 13 points out of a total of 25 points available for this test, and the grand total of obtained points, including those obtained with a presentation or a project, is greater than or equal to 18. Use of books, handbooks, lecture notes is not permitted: only the sheets provided by the teacher can be used. All the questions must be answered, at least partially: tests in which even one question has not been answered will not be evaluated. Duration of the test: 2 hours.

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### Exercises

(1) Describe the major differences between *control* data, *relevant* data, and *application* data of a business process model.

space reserved to your answer

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<sup>1</sup>**Remark.** Complete specifications whenever needed. Clarity and order will be taken into account for the evaluation.

**(2)** The PYB (PublishYourBook) company publishes books within several series. Every serie has a title, a topic, and a managing editor. When an author wants to propose a book, he/she contacts the managing editor of the serie, who collects all the basic information about the proposal (tentative title of the book, expected number of pages).

The managing editor then sends out the proposal to three reviewers via the external database table `OutgoingRequest` and collects their reports via the external database table `IncomingReview`. If all the reviewers agree on accepting or rejecting the proposal, the proposal is accepted or rejected: if no complete agreement is reached, via the above tables the managing editor contacts a fourth reviewer, whose decision (accept or reject) will be the final one.

Next, the managing editor informs the author about the final decision. If the proposal is rejected, the process ends. If the proposal is accepted, the author has to send in to PYB the manuscript within 60 days: no late submission is permitted, or the manuscript will be discarded.

The process stores all the collected information in a database table (namely, `PYB_History`), whose structure must be suitably defined.

**(3)** With respect to the process described in Exercise 2, design an exception that sends out a reminder to the managing editor if the author sends in no manuscript within 58 days from the acceptance of the proposal.

space reserved to your answer - exercise 3

space reserved to your answer - exercise 2

(4) Considering the process model design methodology, which are the main goals of the process model analysis?

space reserved to your answer

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This part for use by the teacher, only.

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

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