

**M.C.A. SEM - IV (CHOICE BASED CREDIT SYSTEM 2011 &
2012 COURSE) : WINTER - 2017
SUBJECT : DESIGN PATTERNS & HCI**

Day : **Monday**
Date : **13/11/2017**

Time **10.00 AM TO 01.00 PM**
Max. Marks: 100

W-2017-1701

N.B.

- 1) Attempt any **FOUR** questions out of **SIX** in Section – I and any **TWO** questions out of **THREE** in Section – II.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SEPARATE** answer book.

SECTION – I

- Q.1** Illustrate the Object Action interaction model in Human Computer Interaction. (15)
- Q.2** Explain the Abstract Factory pattern with its intent, structure and applicability. (15)
- Q.3** What do you know about Proxy pattern? Explain where to use it. (15)
- Q.4** Describe in detail the eight golden rules of user interface design. (15)
- Q.5** What is Template Method? Comment on when to use it. Justify your answer. (15)
- Q.6** Write short notes on the following: (15)
- a) Singleton pattern
 - b) Bridge pattern
 - c) Chain of Responsibility Pattern

SECTION – II

- Q.7** Illustrate the Observer Design Pattern with its intent, structure, applicability and example. (20)
- Q.8** Whenever we design a system we have to care about its reachability towards every person including specially abled people. Illustrate your views about user interface design. (20)
- Q.9** When to use Composite Design Pattern? Illustrate the use of it with example. (20)

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