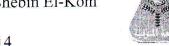
Menoufia University

Faculty of Engineering, Shebin El-Kom

Civil Eng. Department Date of Exam: 7/6/2014



Subject: Reinforced Concrete

Code: CVE 411

Year : 4<sup>rd</sup> Year Civil Time Allowed : 4 hours

Systematic arrangement of calculations, neat drawings and clear answers are essential.

- Any data not given can be reasonably assumed. The exam consists of four questions. All of them must be answered. All dimensions in meter.

## Question (2): Choose the correct answer from the following ...... (20 %)

- 1- Water structures design according to
  - A) Category (4) of RC structures and stage two
  - B) Category (4) of RC structures and stage one
  - C) Category (4) of RC structures and both stage one & two
  - D) All of the above
  - E) None of the above
- 2- Stage one means
  - A) Low strength of concrete and low yield stress of steel reinforcement
  - B) Big concrete section
  - C) Low tensile strength of concrete section
  - D) All of the above
  - E) None of the above
- 3- Reinforced concrete water structures may classified according to
  - A) Location (elevated, rested on soil, underground)
  - B) Soil type (good, medium, weak)
  - C) Geometry (circular, rectangular, open channels)
  - D) Dimensions (shallow, medium, deep)
  - E) All of the above
  - F) None of the above
- 4- Circular RC tanks can be designed using
  - A) PCA tables and charts only
  - B) Simplified method only
  - C) Weitny and ressiners method only
  - D) All of the above
  - E) None of the above
- 5- Reinforced concrete structures subjected to fire may be with stand according to Egyptian code of practice for
  - A) one hour
  - B) Two hours
  - C) Three hours
  - D) Four hours
  - E) All of the above
- 6- RC structures that designed to be save in fire have
  - A) A good details of reinforcement
  - B) Adequate cover
  - C) A good strength
  - D) A fiber in concrete mix
  - E) All of the above

