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- 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.
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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