

Faculty of Electrical & Electronics Engineering

ENGINEERS AND SOCIETY

QUIZ 1

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| Mapping CO,PO: CO1,PO6 |
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| CO1: Demonstrate the social, culture, global and environmental responsibilities as an engineer. PO6: Ability to demonstrate the professional and ethical responsibilities. |
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Question 1

Choose a **WRONG** statement regarding engineering professions.

- A. The practice of organizing the design, construction and operation of any artifact that transforms the physical world to meet some recognized need
- B. A profession that has standards of conduct and responsibilities
- C. An exercise in optimizing economic cost
- D. Not subjected with a substantial degree of public obligation

[1 Mark]

Question 2

Which of the following statements is **TRUE**?

- A. Scientists seek technical answers to understand natural phenomenon while engineers study technical problems with a practical application always in mind
- B. Engineering organizations is important to protect engineer's professional fees and salaries.
- C. Engineers do not require to be familiar with the skills of his/her subordinates, in addition to that, innovate, design, make decisions and, foresee, identify, assess, and solve problems.
- D. Engineering technologists design and manufacture machines and systems, while engineers have the technical know-how to use and install the machines properly

[1 Mark]

Question 3

After graduating from university, in order to become a professional engineer in Malaysia, the following criteria must be fulfilled.

- A. At least 3 years of working experience, effective upon registration with Institution of Engineers Malaysia (IEM), under a Professional Engineer (P.Eng.) who is in the same discipline (or under the log book scheme)
- B. Engineering degree must be accredited by the Lembaga Akreditasi Negara (LAN)
- C. Attended the mandatory 60 hours of talks/ seminars organised or endorsed by the Board of Engineers Malaysia (BEM)
- D. Pass professional interview (oral and essay) conducted by the Institute of Electrical and Electronic Engineers (IEEE) Malaysia Section.

[1 Mark]

Question 4

Explain the flow to become Professional Engineer (Ir.) (route 1) after graduating from university.

Answer:

[4 Marks]

Question 5

Define **THREE (3)** characteristics of Professional Engineer.

Answer:

[3 Marks]