

ENGINEERING ETHICS QUIZ [E](Final) FALL 2024-25

1. Testing or simulation of a newly developed software done before release only due to under most favorable conditions like getting client attention is ethically right.

(1 Point)

☐ True

☒ False

2. The concepts of Legal rights are little bit different from ethical rights which are(i.e. what is the meaning of Legal Rights that makes it different from Ethical rights)

(1 Point)

☐ All of them

☒ option 2 and 3

☐ The "just claims" given to all humans within a government's jurisdiction

☐ The violation of legal rights are acts which involve the actions of Law enforcing agency

☐ The common system of rules/practices established by people, society, or custom

3. Which of the following activities is an offence for a person who is not licensed under the professional engineering Act in your province or territory or country?

(1 Point)

☐ Using the title Professional Engineer in professional dealings

☐ Using a seal that leads to the belief that the person is licensed

- ☒ All of them
- ☐ Practicing professional engineering in a company

4. Whistle blowing is the act of informing proper authorities through proper channel about any harmful, dangerous, or illegal activities that can directly affect the main stakeholder/public if the direct authority involved does not care about the scenario. (1 Point)

- ☐ False
- ☒ True

5. For designing a sustainable engineering product/service which of the following component must be considered (1 Point)

- ☐ risk-benefit analysis
- ☐ Secondary cost analysis
- ☒ all of them
- ☐ None of them
- ☐ Feasibility analysis

6. Name *

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7. The code of ethics in your provincial licensing Act is (i.e. codes provided by IEB, Bangladesh) (1 Point)

- ☒ a seemingly compulsory guide to professional behaviour, enforced by the licensing Association.
- ☐ a voluntary guide to professional conduct
- ☐ a compulsory guide to professional behaviour, enforced by the law enforcing organization
- ☐ a voluntary guide, but strongly recommended by the licensing Association to follow

8. Which jobs are normally known as profession according to the definition of professionalism (i.e. which work fulfill the criterion of an approved achievement from some regulatory bodies) (1 Point)

- ☐ Practicing Medicine
- ☐ Practicing Law
- ☒ First three options
- ☐ Engineering
- ☐ Running a Grocery store
- ☐ All of them

9. The fundamental principle/objective of the code of ethics is to (1 Point)

- ☐ conform to the tradition established by other professions
- ☐ improve the image of the engineering profession in society
- ☐ conform to the tradition established by the technical societies
- ☒ protect the safety, health and welfare of public and environment.

10. Reasonable and feasible solutions to ethical dilemmas are _____. (1 Point)

- ☐ imperfect, uninformed, and ambiguous
- ☒ clear, informed, and well-reasoned
- ☐ morally compromised and challenging
- ☐ rigid, biased, and self-satisfactory

11. Falsification happens when data manipulation is done by _____. (1 Point)

- ☒ option 1 and 3
- ☐ Adding unrelated data to prove a result
- ☐ interpolate with proper mathematical formula to generate data
- ☐ all of them
- ☐ place data from anywhere to prove hypothesis

12. Which is not the duty of an International Authority responsible for standardizing Engineering Ethics in professional field. (1 Point)

- ☐ to control financial transactions of a engineering company
- ☐ to propose guidelines for safe engineering practice
- ☐ All of them
- ☐ to establish a common professional engineering practice standard
- ☒ option 1 and 3

- ☐ To make legal rulings or laws of a country
- ☐ option 2 and 3

13. Just as individuals like engineers have responsibilities (obligations), so do corporations and companies towards the employees. (1 Point)

- ☒ True
- ☐ False
- ☐ not clear from the concept of professional ethics

14. Professional degrees can be obtained by enrolling certified institute and spending a particular amount of time to prove competence. The statement is (1 Point)

- ☒ True
- ☐ False

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16. In order to resolve an ethical dilemma, one should arrive at a carefully reasoned judgment by _____. (1 Point)

- ☐ by tossing coin
- ☐ Following your own intention fulfilling your personal interest
- ☒ weighing all the relevant moral reasons and facts

☐ considering relationships of your company with other organizations

17. Occasionally, a conflict of interest may occur accidentally or unavoidably. In such cases, the best course of action is to (1 Point)

- ☒ disclose the conflict to your employer and anyone else directly involved.
- ☐ ignore the conflict of interest; it is one of the benefits of a professional job.
- ☐ keep the conflict of interest secret, but try not to let it affect your decisions
- ☐ disclose the conflict to all fellow engineer and ask for advice from those who are not competent.

18. In Bangladesh which organization is responsible for the accreditation of the university engineering professional degrees (1 Point)

- ☐ None of them
- ☐ UGC and IEB along with ACC
- ☒ IEB and BAETE under the guidance of UGC
- ☐ ABET
- ☐ Ministry of Education, Govt Republic of Bangladesh and UGC

19. The application of Professional or Engineering Ethical principles may be different from the perception of personal Ethics in workplace. (1 Point)

- ☒ True
- ☐ False

20. The main criteria for considering an ethical dilemma to be resolved by whistle blowing are (1 Point)

- ☐ Option 1 and 2
- ☐ The Whistle blower must first inform the issue to his immediate supervisor but failed to get cooperation from him
- ☒ All of them
- ☐ The whistle blower must approach to proper authority who can resolve the case
- ☐ The case must affect the safety, health and welfare of public

21. Similar to the engineering design solutions, some ethical resolutions are dynamic because _____. (1 Point)

- ☐ None of them
- ☒ All of them
- ☐ as problem would go through much iterations, solution find more feasibility
- ☐ as feedback can be received from testing and application
- ☐ as the specific problems arises, solutions are developed

22. When an accident is a result of intentional negligence, it is considered to be _____, because _____. (1 Point)

- ☐ None of them
- ☒ Unethical, as negligence occurs when one fail to exercise due responsibilities
- ☐ Ethical, as it is not mandatory to follow ethics

- ☐ Considerable, as moral awareness varies person to person.

23. The total cost of an engineering product must be determined by doing _____ (1 Point)

- ☐ only based on primary cost
- ☐ analyzing the long term goodwill value
- ☐ option 1 to 3
- ☒ all of them
- ☐ cost-benefit analysis
- ☐ risk-safety analysis

24. Codes of ethics state the engineer's duties to society, to employers, to clients, to colleagues, to subordinates, and to the profession. However, when these duties conflict, which group should take precedence? (1 Point)

- ☐ None of them
- ☐ All of them
- ☒ Society and the public
- ☐ Employers and clients.
- ☐ Colleagues and subordinates.

25. When code of ethics are abused or not taken seriously within a profession, then _____. (1 Point)

- ☐ discourage those who are seeking to serve the public
- ☐ Option 1 and 3
- ☒ all of them
- ☐ increases public criticism about the profession
- ☐ lead to a distrust of the engineering profession

26. The first step in resolving an ethical dilemma should be _____. (1 Point)

- ☐ Analyzing Information
- ☐ Proposing tentative solutions
- ☐ all of them
- ☒ Analyzing Moral Clarity

27. Which of the following reprehensible actions is clearly a conflict of interest? (1 Point)

- ☐ Failing to correct or report a situation that may endanger the public
- ☐ Sealing a drawing by an unlicensed person not under your direct supervision
- ☒ Accepting a secret commission from a supplier for buying the supplier's products
- ☐ Making public statements that are not based on firm knowledge and conviction.

28. Which Organization is famous for giving international engineering degree accreditation from Universities according to an universal educational standard (1 Point)

- ☐ IEEE
- ☐ BAETE
- ☒ ABET
- ☐ All of them
- ☐ NSPE

29. Plagiarism can happen in engineering design by _____ (1 Point)

- ☐ presenting a design to the client without proper referencing
- ☒ all of them
- ☐ violating copyrights
- ☐ Option 2 and 3
- ☐ using previous works / other peoples work without acknowledging

30. Which one is the Global Engineering authority responsible for handling the ethical issues of all branches of engineering (1 Point)

- ☐ ACM
- ☐ None of them
- ☐ NSPE
- ☒ IEEE
- ☐ IEB

31. Situations in which moral reasoning and decision making based on moral principles come into conflict with the Ethical standards can be identified as _____. (1 Point)

- ☐ Moral autonomy
- ☒ Moral / Ethical Dilemma
- ☐ conflict of interest
- ☐ Utilitarianism

32. The responsibility to be a faithful agent of the employer does not override professional judgment in important matters of public safety (1 Point)

- ☒ True
- ☐ not clear from the concept of professional ethics
- ☐ False

33. Without proper accreditation no offered engineering degree is considered to be recognized as professional engineering degree. The statement is (1 Point)

- ☒ True
- ☐ False

34. Intellectual property right violation can happen in engineering design by violating the following bindings: (1 Point)

- ☐ Copyright

- ☐ Patent
- ☐ Trade secret
- ☒ all of them
- ☐ only option 1

35. Which of the following is a basis for disciplinary action under the professional engineering licensing Act? (1 Point)

- ☒ all of them
- ☐ Involvement of a criminal offence not related with the company.
- ☐ Incompetence in profession , however it does not cause any violation of public rights
- ☐ Negligence in engineering work which directly affects the health and safety. of public

36. A situation in which an engineer's loyalty and obligations to the company/organization may be compromised because of self-interests or other unprofessional behavior is termed as (1 Point)

- ☒ Conflict of interest
- ☐ Organizational disobedience
- ☐ None of them
- ☐ Moral Autonomy

37. When rough drafts of drawings or reports of an engineering design are prepared and circulated for information or discussion, how should they be marked? (1 Point)

- ☐ They should be signed, sealed and dated the same as final drawings
- ☒ They should be signed, but marked as "preliminary" or "not for construction"
- ☐ They should simply be signed by the engineer who is the author
- ☐ They should be signed, but marked as "confidential".

38. To get Short term benefit from an engineering product through compromise in design standards can override long-term public safety. The statement is (1 Point)

- ☐ True
- ☒ False

39. In order to create a common professional ground for successful project operation, which of the following statement is applicable? (1 Point)

- ☐ All of them
- ☐ Personal Morality is supposed to take precedence over Professional Ethics
- ☐ Professional Ethics is supposed to take precedence over Common morality
- ☒ Professional Ethics is supposed to take precedence over Personal Morality

40. Risk and safety are directly related with each other. (1 Point)

- ☐ None of them
- ☒ these two feature are inversely related to an engineering product design
- ☐ True

☐ Partially true.

41. A person who has graduated from an engineering program at an accredited university, but has not obtained a license to practice professional engineering. If he is employed at an engineering company and if he is assigned to do some particular jobs only done by the professional engineer, then what steps of action he must follow: (1 Point)

- ☐ both options 2 and 3
- ☐ can do the job without letting anyone know about his incompetency by following the code of ethics
- ☒ must not practice engineering, except under the supervision of a licensed engineer.
- ☐ must practice engineering after elected as professional engineer by the standard engineering authorities

42. "No Lying", "No killing," "No cheating," "Help the needy," "Protect the natural environment" etc. are examples of _____. (1 Point)

- ☐ Professional Ethics/Morality
- ☐ Personal Morality
- ☒ Common Morality
- ☐ None of them



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