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***** EXAMINATION *****

ETHICS -- CHEMICAL ENGINEERING

1. **Ramon failed to press the issue of average residence time because:**
 - a) Rebecca was a former student of his.
 - b) Rebecca was a former teacher of his.
 - c) Rebecca was a former employee of his.
 - d) Rebecca was a former classmate of his.

2. **The ethical conflict with a patent is the patent**
 - a) promotes individual rights versus advancement of technology
 - b) holder makes too much money
 - c) holder was probably not the real inventor
 - d) None of the above

3. **To allow others to freely use someone's intellectual property violates**
 - a) the legitimate rights of the public
 - b) the legitimate rights of the owner of the intellectual property
 - c) the legitimate rights of other patent owners
 - d) the legitimate rights of the users of the patent

4. **To deal with conflicts over intellectual property:**
 - a) intellectual property should be given protection
 - b) excessive protection limits development of technology
 - c) Both a and b
 - d) None of the above

5. **To resolve the dust abatement problem with the neighbors:**
 - a) provide the best abatement system at the lowest cost.
 - b) leave problems to your legal department
 - c) leave problems to your public relations department.
 - d) provide an inferior abatement system at a lower cost.

6. **To design the best system:**
 - a) use the lowest cost -- it will guarantee repeat business.
 - b) use the highest cost -- better to protect yourself
 - c) use the highest cost -- the owner has significant assets
 - d) use the creative-middle-way minimizing all conflicts

7. **Your first obligation as a professional engineer is to:**
- a) your client
 - b) the public
 - c) your employer
 - d) None of the above
8. **Excessive ethical obligations to the public:**
- a) may kill the project because of design and construction cost
 - b) may cause your client to question your loyalty
 - c) may introduce inferior designs promoted by environmentalists
 - d) All of the above
9. **The Due-Care Model of professional responsibility is:**
- a) take a passive stance
 - b) take a proactive stance to prevent anticipated harm
 - c) take a stance promoted by the environmentalists
 - d) take a stance which protects only yourself, the engineer
10. **The Malpractice Model:**
- a) requires engineers to avoid malpractice charges
 - b) transfers most of the liability to the client
 - c) protects the client first and the engineer later
 - d) None of the above
11. **The Good Works Model:**
- a) requires engineers to go beyond the Due-Care Model
 - b) promotes the public good
 - c) may be inconvenient to the designing engineer
 - d) All of the above
12. **Joe's recommendations best fit:**
- a) the Malpractice Model
 - b) the Good Works Model
 - c) the Due-Care Model
 - d) a combination of the above three models
13. **Cork accidents will continue to happen. What is the solution?**
- a) provide a design less costly than the cost of litigation.
 - b) recommend discontinuing cork bottles
 - c) both a and b
 - d) None of the above
14. **The Malpractice Model is more strict than:**
- a) the Due-Care Model
 - b) the Good Works Model
 - c) Both a and b
 - d) None of the above

15. **The most careful model is:**
- a) the NSPE Model
 - b) the Due-Care Model
 - c) the Good Works Model
 - d) the Malpractice Model
16. **Standards for minimal internal bottle pressure are:**
- a) provided by the EPA
 - b) provided by the US Department of Commerce
 - c) provided by the USDA
 - d) provided by the federal drug administration
17. **David Jackson:**
- a) lacked a solution to provide a cost-effective solution
 - b) lacked education
 - c) should have investigated a solution before whistle blowing.
 - d) All of the above
18. **Whistleblowing may indicate:**
- a) lack of confidence to investigate a solution
 - b) lack of education
 - c) lack of experience in the industry
 - d) All of the above
19. **To ethically avoid whistleblowing:**
- a) go to work for a competitor
 - b) go to work for the state regulatory agency
 - c) go to work for city health department'
 - d) None of the above
20. **The economic solution to Gilbane Gold's pollution problem was:**
- a) Dilution
 - b) Ion exchange
 - c) artificial wetland
 - d) None of the above

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