

KATHMANDU UNIVERSITY  
End Semester Examination  
July, 2019

Mark scored:

Level : B.Tech.  
Year : IV

Course : GEOM 403  
Semester: II

Exam Roll No. :

Time: 30 mins.

F. M. : 20

Registration No.:

Date :

SECTION "A"  
[20Q × 1 = 20 marks]

Choose and encircle the best answer from the given choices.

1. A Patent is:
  - a. A decorative feature, such as a design or shape, applied to an objective
  - b. A government sanctioned monopoly on an invention
  - c. A certificate that you are the owner of a work
  - d. A secret process that its owner uses
2. Which of the following can you [NOT] do with a patent on an invention?
  - a. Assign the patent
  - b. Manufacture and sell the invention
  - c. Stop others from learning about the invention for 20 years retroactively to the date of filing the application
  - d. Stop others from manufacturing or selling the invention for 20 years retroactively to the date of filing the application
3. Which of the following is NOT protected by copyright?
  - a. Computer software
  - b. Engineering Drawings
  - c. Industrial processes
  - d. Songs
4. Engineers are required to keep their employers' or clients' intellectual property and business information:
  - a. Confidential
  - b. Accessible to the public
  - c. Accessible to the project staff
  - d. Accessible to the media
5. Engineering ethics are needed for engineering practice:
  - a. To prevent lawsuits
  - b. To win contracts
  - c. To increase popularity
  - d. To guide the professional practice
6. Confidential client information includes:
  - a. Information obtained by the information access right
  - b. Information found by the engineer while working for the client
  - c. Information obtained by court order
  - d. Information obtained from NEC
7. Unlimited liability, management decision not shared and minimal regulations are all specifically part of which of the following?
  - a. Partnership
  - b. Trusts
  - c. Sole Proprietorship
  - d. corporation

8. Condition for (NOT) refusal to register the Trademark if such trademark.
  - a. Affects the dignity of individuals/ institution
  - b. Has already been registered in the name of another person
  - c. Aligns to the principle, norms and international conventions of industrial property
  - d. Effects in the goodwill of trademark of any other institution
  
9. Which of the following is NOT an element of Negligence (choose the most-inclusive correct answer)?
  - a. The defendant owed the plaintiff a duty of care
  - b. The defendant owed the plaintiff a duty to warn
  - c. The defendant breach caused injury to the plaintiff
  - d. The defendant breached duty through action or inaction below the standard of care
  
10. According to the contract Act, which of the following element is not a void contract but consider to be voidable
  - a. Forceful contract
  - b. Signed by incompetent parties
  - c. Not the possibility of performance
  - d. Contrary to statutory law

Fill in the Blanks [**Each question carry 1 marks**]

11. All ..... are agreements but all ..... are not contracts.
  
12. Nobody shall copy the trademark without .....
  
13. “Central Preferentum” rule of interpretation deals with the ..... of the term in the contract.
  
14. When the amount of work is big and national/domestic contractors cannot perform the job then the bidding process is known as .....
  
15. In, ....., the purpose of the contract should not be illegal immoral and against the public policy.
  
16. According to company registration Act, a public company shall be converted into a....., if the number of shareholders of the public company becomes less than seven.
  
17. Amount of money deposited while bidding a tender as a guarantee of the party’s willingness of carrying out the work awarded to him is known as .....
  
18. According to Patent Design and Trademark Act, renewal of a patent may be made for ..... times of .....
  
19. NEC is an autonomous body formed under .....
  
20. As per the contract Act the Age < 16 years is are not capable of contract but for ..... <14 years

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F. M. : 55

SECTION "B"

(Short answer questions)

[5Q × 3 = 15 marks]

Attempt *ANY FIVE* questions.

1. Define Engineering as a Profession and Engineering ethics.
2. Distinguish between NEC and NEA objectives.
3. Distinguish between Characteristic of sole business and partnership business.
4. Define procurement, tender, and contract with an example.
5. Define ethical values for code of ethics.
6. What are the requirement of taking professional practice license from NEC?

SECTION "C"

(Long answer questions)

Attempt *ALL* questions.

7. What do you understand by Intellectual Property Rights? How you can apply this concept in the profession of environmental Engineering. Explain it with an example liking with theory. [6]
8. What are the qualities required to become a competent engineer in your domain? Explain at least eight qualities briefly. [6]
9. If you as an environmental engineering professional wish to open a company. Briefly explain the process you need to follow based upon and taking into consideration of the necessity Act in your opinion. [6]
10. An engineer is posted as a project manager of a new hydropower project of NEA. The first work was to excavate soil for foundation of boundary wall of planned project office area. After discussing with engineer friends from the same area, he called a reliable local contractor and asked him to provide rate of earthwork excavation. Since the rate was reasonable, a contract was signed and work started immediately. After completing first phase of work, which consisted to excavation work worth Rs. 1 million, the engineer measured the work, found the work to be satisfactory, and a bank cheque of Rs. 1 million was provided to the contractor. [11]

*Answer the following questions, with proper reference.*

Was everything done as per the Public Procurement Act?

Were any laws on Nepal breached in the process of contract awarding and payment of the contractor?

11. As a consulting engineer you were asked to monitor a water supply project financed by an NGO and handled by local water users committee at Gulmi district. The project was to be completed by the end of May, 2018; otherwise the donor would stop the payment. When you visited the site at the middle of May, you found that the project was not completed. The users committee requested to submit the completion report so that they could finish the work after sometime and will be beneficial to 100 household of the project. [11]

Discuss different options for the engineer in reporting the project progress status, considering personal integrity, ethical dilemma and engineering code of conduct.