

**Subject Code: R13105/R13**

**Set No - 4**

**I B. Tech I Semester Regular/Supplementary Examinations Jan./Feb. - 2015**  
**COMPUTER PROGRAMMING**

(Common to CE, ME, CSE, PCE, IT, Chem E, Aero E, AME, Min E, PE, & Metal E)

**Time: 3 hours**

**Max. Marks: 70**

Question Paper Consists of **Part-A** and **Part-B**  
Answering the question in **Part-A** is Compulsory,  
Three Questions should be answered from **Part-B**

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**PART-A**

- 1.(i) How to execute c program in linux? Explain with example.
- (ii) Differentiate between do-while and while-do.
- (iii) Differentiate between 1D and 2D arrays.
- (iv) Explain about character pointer.
- (v) Discuss about rotation.
- (vi) What is binary file? Discuss

[4+4+3+4+3+4]

**PART- B**

- 2.(a) Differentiate between hardware and software.
  - (b) Explain about the history of the C programming language.
  - (c) Write a C program that illustrates the unary operators.
- 3.(a) What is an array? What are the disadvantages of an array? Discuss.
  - (b) Write a program to print the following matrix on the screen.

[4+6+6]

```
a b c d e
f g h i j
k l m n o
p q r s t
```

[8+8]

- 4.(a) Explain about different storage classes with examples along with scope rules.
- (b) Write a program to print Pascal triangle using functions.

[8+8]

- 5.(a) Differentiate between direct and indirect pointers with examples.
- (b) Write a program to illustrate pointers.

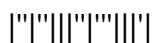
[8+8]

- 6.(a) What is union? How to declare and initialize unions? Discuss.
- (b) Write a program to find two's compliment for the given no.

[8+8]

- 7.(a) What are different types of operating modes of files? Explain with an example.
- (b) Write a program to copy one file contents into another file in reverse order.

[6+10]



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Set No - 1

I B. Tech I Semester Regular/Supplementary Examinations Jan./Feb. - 2015

**PROFESSIONAL ETHICS & HUMAN VALUES**

(Common to ECE, EEE, EIE, Bio-Tech, EComE & Agri.E)

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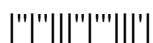
**PART-A**

- 1.(i) Write a brief account on 'Autonomous computers'.
- (ii) 'Codes provide a positive stimulus for ethical conduct'- explain.
- (iii) How courage is considered as virtue?
- (iv) What are the issues related to cross-culture?
- (v) Explain types of inquiry.
- (vi) Write about risk- benefit analysis. Explain with an example.
- (vii) What is conflict of interest?

[3+3+3+3+3+3+4]

**PART-B**

2. Explain the salient features of Indian patent act 1970. What are its objectives? [16]
3. Write about- [8+8]
  - (a) Threshold Levels for Risk.
  - (b) Liability
4. Write about [8+8]
  - (a) Kohlberg's theory
  - (b) Professional Ethics.
5. (a) What is the importance of collegiality? [8+8]  
(b) Write about two senses of Loyalty. Does Loyalty affects professionalism? [8+8]
6. What are the general features of morally responsible engineers? Explain each feature with appropriate examples. [16]
7. Write a note on – [8+8]
  - (a) Integrity
  - (b) Self- respect



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**Set No - 2**

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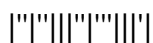
**PART-A**

- 1.(i) Explain what is meant by authenticity.
- (ii) What are values? Explain how values have changed over a period of time.
- (iii) Explain the meaning of moral leader ship.
- (iv) Write about types of inquiry.
- (v) Discuss the need to focus on professional ethics. Why are they essential to a person in any profession.
- (vi) What is conscientiousness?
- (vii) List the moral rights of a salaried engineer. What are his responsibilities?

[3+3+3+3+3+3+4]

**PART-B**

2. What is institutional authority? How do you correlate institutional authority, expert authority and power? [16]
3. Discuss the qualities of an engineer in order to be a responsible experimenter. [16]
4. Write briefly about [4+4+4+4]
  - (a) 'Honesty is the best policy'
  - (b) Living peace fully
  - (c) Civic virtue
  - (d) Integrity.
5. Write about- [8+8]
  - (a) Computer ethics.
  - (b) Consulting engineering.
6. (a) Explain Gilligan's stage theory of moral development. [8+8]  
(b) Write about the types of inquiry. [8+8]
7. Write about [8+8]
  - (a) Safety and engineer
  - (b) Risk benefit analysis.



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Set No - 3

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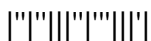
**PART-A**

- 1.(i) How can risks be reduced? Explain.
- (ii) Explain the essence of Indian Spirituality.
- (iii) Give an account of the History of Ethics.
- (iv) What is meant by globalization? What are its advantages?
- (v) Write short notes on industrial standard.
- (vi) What is meant by obligations of loyalty?
- (vii) Explain the term Accountability.

[3+3+3+3+3+3+4]

**PART-B**

2. (a) What are the types of Accidents? Give the details.  
(b) Write about the importance of the designing for safety. [8+8]
3. Define and explain personal ethics and professional ethics. [16]
4. Write a short note on-  
(a) Weapon development.  
(b) Autonomous computers. [8+8]
5. Elaborate your views on 'Engineering as social experimentation' [16]
6. Explain the levels of moral development as suggested by Kohlberg. What is Gilligan's argument? Make a comparative study. [16]
7. Write about-  
(a) Ethical Egoism.  
(b) Collective Bargaining. [8+8]



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**PART-A**

- 1.(i) What is meant by Ethical – Egoism?
- (ii) Write about fundamental values.
- (iii) Distinguish between profession and professionalism.
- (iv) Explain what happens if the judgment about the risk is incorrect?
- (v) State the benefits of collective bargaining.
- (vi) What is the role played by experimentation in the design process?
- (vii) What are the responsibilities of the engineers as managers?

[3+3+3+3+3+3+4]

**PART-B**

2. State and explain any two major accidents. List out the causes and suggest the safety measures.

[16]

3. Explain in detail -

- (a) Peace
- (b) Non violence
- (c) Right conduct
- (d) Respect for others

[4+4+4+4]

4. (a) Explain the necessity that engineers must be the guardians of public interest.
- (b) Can knowledge be gained by the study of engineering projects? Discuss.

[8+8]

5. (a) Explain in detail the essence of Kohlberg's theory.
- (b) Write about the types of inquiry.

[8+8]

6. (a) Explain the meaning of 'accountability'.
- (b) Write short note on 'Industrial standards'.

[8+8]

7. Define and explain-

- (a) Privileged information.
- (b) Proprietary information

[8+8]

