B.Tech. DEGREE EXAMINATION, MAY 2017

Third / Fourth Semester

15IT214 - PROFESSIONAL ETHICS

Mata	(For the candidates admitted during the	acade	mic year 2015 – 2016 onwards)
Note: (i)	over to hall invigilator at the end of 45 th minute		irst 45 minutes and OMR sheet should be handed
(ii)	Part - B and Part - C should be answered in an	iswer i	booklet.
Time: T	hree Hours		Max. Marks: 100
	PART – A (20 × Answer ALI		•
1.	An approach towards societal problem is re	ferre	d to as
	(A) Macro ethics	(B)	Micro ethics
	(C) Morality	(D)	Normative inquiry
2.	The perception of truth and the ability to di	sting	aish between right or wrong is
	(A) Courage	200000000000000000000000000000000000000	Temperance
	(C) Wisdom	(D)	Justice
	 A virtue of maintaining personal discipline (A) Self control (C) Self actudization The saving "actions are normally right."	(B) (D)	Self respect Self esteem they are approved by law on custom" us
4.	termed as	wnen	they are approved by law on eastern as
	(A) Ethical relativism	(B)	Ethical pluralism /
	(C) Moral rationalism	(D)	Ethical egoism
(Informed consent includes the following to (A) Knowledge and voluntariness (C) Voluntariness and views	(B)	ments Knowledge and non-voluntariness Opinions and voluntariness
(.	Large-scale engineering projects involve A) Fragmentation of work C) Wholesome work	(B) (D)	Decoupling of work Field work
7 S	tandards are established by for i	n-hoı	ise use
(A	A) Professional associations C) Individuals	(B) (D)	Trade associations
8. TI	he primary reason for failure of challenge A) Rupturing of O-rings due to cold	er spa l (B)	ruel insufficiency

(D) Improper ignition

water

(C) Improper take off

9.	A deductive method to identify the c	ause of failure is
	(A) Scenario analysis	
	(C) Fault-tree analysis	(B) Failure mode and effect analysis(D) Event-tree analysis
10.	Identify the type of testing where the	risk is identified by testing the component till it fails
	(A) Function testing	Tisk is identified by testing the component till it fails
	(C) Destructive testing	(D) Trototype testing
	5	(D) Simulation testing
11.	"Potential that something unwanted a	and harmful happen" is called
		(B) Risk
	(C) Personal risk	(D) Voluntary risk
12.	Which of the following does not cont	
	(A) Inherent safety concepts	Tibute to reducing risk?
	(C) Random inspection and auditing	(B) Use of redundancy principles
	the position and additing	(D) Emergency plan
13.	 In software companies such as Infos based on the ethics of 	ys, 1BM, wipro etc, the success of a project is mainly
	(A) Loyalty	(B) Collegiality
	(C) Respect for authority	(D) Team-play
14.	Loyalty means (A) Developing personal attention as	that (B) The quality of being true and faithful in
	of friendship	one's support
	(C) To promote the aims of professio	n (D) Bringing unethical practices of engineers to the proper authority of action
15.	Rights of conscientious refusal is the ri	ght to
	(A) Engaging in unethical behaviour	(B) Have freedom of and
	(C) Warn the public about unusual ha	rms (D) Recognize the principles of enlightened
	and danger	conscience
16	Whistle blowing is defined as	
- 10.	(A) Informing the subordiantes ab	out (B) Blowing a salid
	some illegal activity in the compar	out (B) Blowing a whistle when a dangerous situation is encounter
	(C) The engineers to have professio	s chedulitel
	right to disclose a wrong do	nal (D) Alerting relevant person to moral on legal conceptions when relevant persons are
	outside an organization	those is a position
17	Which are in a great	
17.	business in developing countries?	ipating country when foreign countries are doing
	(A) Inexpensive labour	(B) Availability of natural resources
. ((C) Fresh market for products	(D) Jobs with higher pay and greater challenge
18. V	Which ethics is appropriate a	o I y man groater chantenge
ir	nto account the impact on animals living A) Biocentric ethics	ment, "while buildings a dam engineers should take
(1	1) Blocentric ethics	
(0	Sentient centred ethics	(B) Ecoentric ethics
	- Cuilcs	(D) Human centered environment ethics

19. Which one of the following moves engineers away from jobs related to weapons

(A) Job with high salary

(B) Patriotic forever

- (C) Arms control regulations
- (D) Personal conscience towards violence and destruction it causes
- 20. The following protects our environment from degradation

(A) Acid rain (C) Global warming

- (B) Depletion of ozone layer
- (D) Sustainable development

$PART - B (5 \times 4 = 20 Marks)$ Answer ANY FIVE Questions

- 21. Explain the models of professional roles.
- 22. List the uses of ethical theories.
- 23. What are the benefits of industry standards?
- 24. Explain briefly about the concepts of safety and risk.
- 25. What is confidentiality? What are the management approaches for maintaining confidentiality? Explain.
- 26. What is conflicts of interest? List the various types of conflicts of interest. Name the methods to avoid conflicts of interest.
- 27. What is acid rain? What is its impact on eco system?

$PART - C (5 \times 12 = 60 \text{ Marks})$ Answer ALL Questions

28. a. What is moral autonomy? Describe about Kohlberg's and Gilligan's theories of moral development in humans. Explain the theories with an example.

(OR)

- b. What are the theories on virtue ethics on the theory of right action? Explain each one of them in detail.
- 29. a. Design is an iterative process. Elaborate this statement with relevance to engineering as experimentation.

(OR)

- b. With necessary diagrams, discus about the challenger space shuttle disaster. Highlight the factual, conceptual and normative issues involved in the space shuttle disaster.
- 30. a. What are event tree analysis and fault tree analysis? Explain each one of them with an example application.

(OR)

- b. Write explanatory notes on
 - (i) Personal risk
 - (ii) Public risk
 - (iii) Voluntary risk
 - (iv) Valid comment
- 31. a.i. Define and explain about occupational crimes. Discuss the three cases of occupational crimes.
 - ii. Explain in detail about unionism and professionalism. What are the arguments in favour and against unionism?
 - b.i. List the elements of intellectual property rights (IPR). State the benefits if IPRs.
 - ii. What are the differences between bribe and gift? State the ethical reasons for not tolerating bribe.
 - 32. a. What do you understand about Bhopal Gas Tragedy? Explain how safety procedures and standards were violated in Bhopal by Union Carbide company which had led to the disaster.

b. Describe in detail how an engineer can act as an expert winters, a good manager and a consulting engineer.
