

B.Tech/ AEIE/CSE/ECE/IT/3rd Sem/HMTS-2001/2016

2016

HUMAN VALUES & PROFESSIONAL ETHICS

(HMTS 2001)

Time Allotted : 3 hrs

Full Marks : 70

Figures out of the right margin indicate full marks.

Candidates are required to answer Group A and any 5 (five) from Group B to E, taking at least one from each group.

Candidates are required to give answer in their own words as far as practicable.

GROUP - A

(Multiple Choice Type Questions)

1. Choose the correct alternative for the following:

[10 x 1=10]

i) 'Categorical imperative ' as a concept was proposed by _____

a) Durkheim

b) George Mead

c) Cooley

d) Immanuel Kant

ii) Mass production was made possible with this industrial tool developed in 1951 and coined as a term in 1952. It is known as

a) Assembly Line

b) Automation

c) Robotics

d) Virtual Intelligence

iii) Secularism is one of the basic principles of

a) Indian Ethos

b) Indian Constitution

c) Ancient Indian Culture

d) Indian Sovereign

iv) Sustainable Development was first discussed at _____

a) World Commission on Environment and Development(1987)

- b) UN Convention on Climate Change(1992)
- c) Stockholm Intergovernmental Conference on Human Environment(1972)
- d) Brundtland Report
- v) Immanuel Kant is best known for his work
 - a) *Critique of Pure Reason*
 - b) *The Republic*
 - c) *Thus Spoke Zarathustra*
 - d) *Meditations*
- vi) The quote " That action is best that produces the greatest good for the greatest number" is attributed to
 - a) Jeremy Bentham
 - b) Immanuel Kant
 - c) John Stuart Mill
 - d) Friedrich Wilhelm Nietzsche
- vii) 'Post- Industrial Society' as a phase of Industrialization is also known as _____.
 - a) Second Wave of Advanced Industrialization
 - b) Era of global Innovations
 - c) Industrial revolution
 - d) Era of Extensive Industrialization
- viii) The Ozone layer is a shield in the earth's
 - a) Stratosphere
 - b) Atmosphere
 - c) Mesosphere
 - d) Thermosphere
- ix) Canons of Ethics are
 - a) general principles and have universal validity and acceptability
 - b) customary laws which are community specific
 - c) established and defined legal norms
 - d) general principles and are not bound by legality

x) The primitive part of an individual's psyche based on instincts and thriving on pleasure is defined by Freud as _____ .

- a) Ego b) Id c) Inner-self d) Superego

GROUP - B

2 a) State the importance of Socialization towards building an individual's value system.

b) Write short note (on any one):

i) Societal Value Crisis ii) Social Values : Justice & Rule of Law

iii) Maslow's 'Need-Priority' Theory

6+6=12

3 Analyse the following news item from the point of view of the correlation between individual values and organizational values.

The Telegraph dt 17th September 2016

Calcutta University has decided to revert to the system of holding its B.Sc(Honours) practical examination at neutral centres to prevent some colleges from granting their students "undue advantage".

" We need to ensure all examinations are held in a fair manner so that the students are awarded marks on the basis of merit. A move is on to conduct the practical examinations at other centres from 2017," said Ashutosh Ghosh, interim vice-chancellor of Calcutta University.

Many students with low or average score in their part III theory papers were found to have more than 90% marks in the practical tests, triggering suspicion that they had used unfair means or had been provided the chance to do so.

This was apparently fuelled by reports received from teachers as well as students of various colleges over the past three years, said

a senior official of the university. He called the trend "dangerous" because a few extra marks in the practical tests could help "undeserving" candidates gets seats in post graduate courses over deserving ones.

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GROUP - C

- 4 a) What is profession ? List the importance of engineering ethical standards in one's professional life citing suitable examples.
b) How is Whistle Blowing significant? State with examples.

6+6=12

- 5 a) Should performance enhancing drugs be accepted in sports, how far should one compromise with his/her professional ethics?

Doping for Sports Professionals

"The use of drugs to enhance performance in sports has certainly occurred since the time of the original Olympic Games[from 776 to 393 BC]. The origin of the word 'doping' is attributed to the Dutch word 'doop', which is a viscous opium juice, the drug of choice of the ancient Greeks." Tracing doping practice through the historical timeline:

1928, The International Association of Athletics Federation (IAAF), the governing body for the sport of track and field, become the first international federation to prohibit doping by athletes.

1940-45, During World War II the American, British, German and Japanese armed forces distribute amphetamines to their soldiers to counteract fatigue, elevate mood, and heighten endurance.

1958, The "Godfather of Steroids," Dr. John Bosley Ziegler, creates an anabolic steroid called Dianabol after noting the success of the Russian weightlifting team due to the use of testosterone in 1954 and began experimenting on US weightlifters. But close to his death in

1983, Dr. Ziegler speaks out against his invention after seeing athletes abuse the drug.

1960, Danish cyclist, Knut Jensen, dies on Aug 26, 1960 at the Summer Olympics in Rome during the 100km team time trial race. His collapse, which fractured his skull, is initially thought to be caused by the high temperatures that day. His autopsy, however reveals traces of an amphetamine called Ronicol.

1968, Hans-Gunnar Liljenwall, a member of the Swedish modern pentathlon team, was the first Olympic athlete disqualified for doping violation. He was stripped of his bronze medal at the Mexico City Olympics when he tested positive for excessive alcohol.

Although doping is a banned practice yet sport professionals indulge in the same to enhance their performance.

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GROUP - D

- 6 a) Explain the concept of Technology Transfer.
b) What is Industrialization? State its impact on man-machine interaction highlighting on Automation and Assembly Line.

6+6=12

- 7 Analyse the following case through Organizational Ethics as breach of human and ecological welfare.

Can Money Compensate Lives?

Minamata disease is a neurological syndrome caused by severe mercury poisoning. The symptoms include numbness in hands and feet, general muscle weakness, loss of peripheral vision, hearing and speech disability, insanity, paralysis, coma followed by death. A congenital form can also affect the foetus in womb.

The Chisso Corporation is a Japanese chemical company. It is an important supplier of liquid crystal used for LCDs, but is best known for its role in the 34-year-long contamination of the water supply in Minamata, Japan that led to thousands of deaths and victims of disease. Between 1932 and 1968, Chisso's chemical factory in Minamata released large quantities of industrial waste water that was contaminated with highly toxic methyl mercury.

This poison water bio accumulated in local sea life that was then consumed by the immediate population. As a result of this contamination, 2,265 individuals in the area were inflicted with what is now known as Minamata disease. 1,784 of those victims died as a result of the poisoning and/or the disease. Those who were afflicted with the disease developed skeletomuscular deformities and lost the ability to perform motor functions such as walking. Many also lost significant amounts of vision, as well as hearing and speech capabilities.

By 2004, Chisso Corporation had paid \$ 86 million in compensation, and, in the same year, the company was ordered to clean up its contamination.

Reported that, Chisso president later chairman Yutaka Egashira (Later maternal grandfather of Masako, Crown Princess of Japan) used goons in order to threaten and silence patients and their supporters. In addition, Chisso had American photographer and photo-journalist W. Eugene Smith beaten by goons after Smith published a highly regarded photo-essay showing the caustic injuries and birth defects Chisso had caused the Minamata population.

Their year 2000 accounts also show that the Japanese and Kumamoto prefectural governments waived an enormous US \$560 million in related liabilities.

GROUP - E

- 8 Explain the use of Green technology in reducing the negative impact of industrialization. Give example of atleast two such technologies being used in industry.

6+6=12

9. Explore the case from the perspective of Ecological ethics.

Three Gorges Project : China

The Three Gorges Dam Project, the world's largest hydropower project at present, has experienced 75 years from conception, exploration, programming to the go-ahead. Dr. Sun Yat-sen first proposed the idea. In 1992, after a long period of repeated discussions, researches and arguments, the construction was finally commenced.

However, many problems also accompany the project from the proposal to the finish. Some major problem are:

Sediment problem is always a heavy emphasis on the discussion of the Three Gorges Project. It is measured that the river sediment concentration of the upper stream is about 1.2 kg per cubic meter. The total sediment passing the dam is above five hundred million a year. Before the dam project, the mud and sand deposited largely in Jingjiang River, this has raised the water level and menaced the safety of Jiangnan.

Influence on the environment and ecology: After the water storage, due to the steady state of the fluent, the contaminant cannot down rush in time and store up in the reservoir, which would deteriorate water quality.

According to the operational experience of Gezhouba hydropower station, the dam would furiously challenge the surrounding ecology. Because of the dam, fishes cannot normally pass the Three Gorges, and thus their living habits and heredity will change. After the finish of

the water storage, over 560 kinds of land rare plants will be flooded. Experts have to transplant certain varieties which do not distribute over other places.

Migration problem: After the water storage, about 129 cities and towns including Wanxian and Fuling are flooded. The migrants surpass 1,200,000 relating to 20 cities.

Landscape loss: The rising Yangtze River has flooded a part of the landscape. The flooded cultural sites include Quyuan Temple, White Crane Ridge, Dragon Backbone Stone and Qutang Gorge ancient plank road. The partly submerged natural landscape included Bawu Gorge, Dicui Gorge. The partly submerged cultural sites include White Emperor City, Precious Stone Fortress and Fengdu Mountain.

It is a great pity that so many scenic sights have forever disappeared. The experts have tried their best to save them as much as possible, moving some to the new sites, transferring some to museums or taking photos as a reference to later reproduction.
