

**HUMAN VALUES AND 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 × 1 = 10**
- (i) Carbon footprint means
(a) the total amount of greenhouse gases that are generated by our actions
(b) the total amount of fossil fuel generated by our actions
(c) the total amount of natural resources being consumed by our actions
(d) the total damage to the environment as a result of our actions
- (ii) Green Agri Ltd. apart from salary disbursement, cares for employees by availing facilities like education to their children, post-retirement plans and health care. Which following concept (specifically) are they extending as an organization:
(a) Corporate Social Responsibility
(b) Organizational Values
(c) Duty Ethics
(d) Meeting physiological needs.
- (iii) Having robots as Bosses in workplaces
(a) is actually wrong because then machine will overpower human beings
(b) is actually good because the robot will not be biased and prejudiced
Choose the correct statement
(a) Both the statements are correct
(b) Both the statements are wrong
(c) Only Statement (a) is correct
(d) Only statement (b) is correct.
- (iv) Find the correct pair and select the right option:
A) Fritz Schumacher i) Technology Transfer
B) Edward Snowden ii) Appropriate Technology
C) Consequentialism iii) Whistleblowing
D) Knowledge Management iv) Teleology
(a) A-i, B-ii, C-iii, D-iv
(b) A-ii, B-iii, C-iv, D-i
(c) A-iii, B-iv, C-i, D-ii
(d) A-iv, B-i, C-ii, D-iii
- (v) Addiction of mobile usage/of drugs is an example of
(a) individual value crisis
(b) societal level value crisis
(c) both individual and societal level value crisis
(d) this is not a case of value crisis.
- (vi) Electric vehicles are eco-friendly because they do not create pollution
(a) the above statement is correct
(b) the above statement is incorrect because these vehicles are responsible for generating toxic waste
(c) the above statement is partially correct
(d) electric vehicles will qualify as eco-friendly if technology is used to recycle and reuse the batteries used in these cars.
- (vii) Choose the correct statement
(a) maintaining safety at workplace is the responsibility of the employer
(b) maintaining safety at workplace is the responsibility of the employee
(c) maintaining safety at workplace is the responsibility of the Project manager
(d) maintaining safety at workplace is the responsibility of all the stakeholders.
- (viii) The different Stages of Industrialization had remarkable inventions highlighted in the epoch. Select the right order according to the Stages these inventions ruled.
(a) Electricity, computers, steam, 3D printers
(b) Steam, electricity, computers, 3D printers
(c) Steam, computers, electricity, 3D printers
(d) Electricity, computers, 3D printers, steam.

- (ix) Geeta grew up in a rented house and aspired to own a house someday, so she started saving soon after getting employed at a software firm. She made good friends at a local NGO (for autism), and closely realized technological complexity for disabled people, and started researching more on it. Finally, she realized her purpose and aim in life by developing applications exclusively for autistic patients and found joy in service. The stages in Geeta's journey are related to which order of needs:
(a) Physiological > Safety & Security > Social > Cognitive > Self Actualisation.
(b) Safety & Security > Self Actualisation > Cognitive > Physiological > Social.
(c) Self Actualisation > Cognitive > Physiological > Safety & Security > Social.
(d) Social > Safety & Security > Self-Actualisation > Cognitive > Physiological.
- (x) Immanuel Kant is one of the biggest proponents of _____
(a) Duty Ethics (b) Ethics of Moral Judgement
(c) Ethics of Care (d) Work Ethics.

Group- B

2. (a) Write short notes on **any one** of the following:
(i) Maslow's Need-Priority Theory [[CO1](Remember/LOCQ)]
(ii) Cooley's Looking-Glass Self Image [[CO1](Understand/LOCQ)]
(iii) Societal level value crisis. [[CO1](Analyse/IOCQ)]
(b) Do you think acceptance of violence, considering inequalities as normal and resulting loss of social recognition affects our personality from socialization? Explain with your analysis supported by examples. [[Analyse/LOCQ]]
6 + 6 = 12
3. (a) In a democratic country Justice can be implemented with the establishment of Rule of Law. Explain this statement with the help of an example. [[CO1,CO2](Remember/LOCQ)]
(b) Elon Musk has recently acquired twitter and his declared view about freedom of speech is absolute and he does not want to implement any curb on so called "hate speeches" in online platforms. Do you agree with this view? Provide your views on this with reasons for the same. [[CO1,CO2](Evaluate/HOCQ)]
6 + 6 = 12

Group - C

4. Read carefully the news item and answer the questions below.
(Jan 2018) Meerut, UP: Unwilling to 'dirty' car, cops let two teens die.
Arpit Khurana and Sunny Gupta students of class X and residents of Sotia Vihar, were going home when the motorcycle they were riding hit an electric pole and the teenagers were flung into a drain along the road. The boys were brought out by passers-by and an acquaintance of Arpit. The video clearly shows that both boys were injured and lying on the road. Passer-by called police, who reached there in a Dial 100 vehicle. However, the policemen can be seen refusing to take the boys to hospital, despite the acquaintance begging them to. "The car will become dirty. Take them in a tempo," one of the policemen can be heard saying. The injured boys died on the road before they could be taken to hospital.
In a video that shows chilling indifference on the part of the men who were duty-bound to help the teens, one of the cops can be seen asking, "Where will we sit the whole night if our vehicle gets dirty?" Acting swiftly, the police department suspended three cops -- head constable Inderpal Singh and constables Pankaj Kumar and Manoj Kumar.
(i) Analyse the action of the two policemen in the light of Ethics of duty. [[CO1,CO2](Analyze/IOCQ)]
(ii) Ethics of duty is related to the individual value system. Comment. [[CO2,CO3](Remember/LOCQ)]
(iii) Do you think suspending the policemen will help in curbing dereliction of duty? Provide your own solutions. [[CO1,CO3](Evaluate/HOCQ)]
(4 + 4 + 4) = 12
5. (a) Explain the concept of Moral development with the help of Kohlberg and Gilligan's theory. [[CO2](Understand/LOCQ)]
(b) Whistleblowing is an important mechanism to check unethical conduct and corruption in public and private institutions. Express your views in the light of the above statement. [[CO2](Understand/LOCQ)]
6 + 6 = 12

Group - D

6. Write short notes on any two of the following:
(i) Importance of Technology Transfer. [[CO4](Remember/LOCQ)]
(ii) Popularisation of Artificial Intelligence enabled machines will generate unemployment. [[CO3](Remember/LOCQ)]
(iii) Development which causes environmental degradation is no development. [[CO5](Remember/LOCQ)]
(6 + 6) = 12
7. (May 2017) WannaCry Ransomware Attack
WannaCry Ransomware attack, was a cyber-attack conducted on a large scale, targeting only the Microsoft Windows operating systems. The initial infection was likely through an exposed vulnerable SMB port, rather than email phishing as initially assumed. However, email phishing was the main method of spreading the WannaCry ransomware. In this attack, the ransomware would encrypt all the files in your computer. To remove such encryption, one was asked to pay approximately \$300 worth in bitcoins, with a deadline.

What helped make this attack successful?

1. The main victims of such cybercrime were **Windows 8, 2003 and XP users**, because the last released security update for XP was in April 2014, and many didn't install the newer update as of March this year.
2. Microsoft had stopped supporting these versions of windows, but an emergency update was released for them to fight this cyber attack
3. Also, there were many using unlicensed windows software. This makes them all the more vulnerable.
4. The attack is believed to have been carried out using tools that were stolen from the US security agency NSA, which had been stockpiling on a number of vulnerabilities around Windows OS, Mac OS, etc.
5. The WannaCry ransomware attack had exploited vulnerability in Windows OS called Eternal Blue.

Impact

This attack impacted a number of businesses, institutions and hospitals all over the world. Businesses like Nissan and Renault had to pause their activities after some of their computers were affected. In hospitals, computer systems used for various purposes were affected, like MRI scanners and computers. Many critics said that this attack could have been prevented if people took steps, to solve the flaws on which the attacks were based, earlier. Some even blame the governments for their inability to secure vulnerabilities. Estimates state that around 200,000 to 300,000 computer systems were affected in this attack in approximately 150 countries.

Answer the following questions

- (i) According to you what are the reasons for such an attack. [[CO3,CO4](understand/LOCQ)]
 - (ii) 'Providing safe and secure software is the responsibility of the manufacturer'. In the light of the above statement analyse the issue of safety in industries. [[CO3,CO4](Understand/LOCQ)]
 - (iii) Suggest at least 2 solutions to mitigate such breaches in the future. [[CO3&CO4](Analyze/IOCQ)]
- (4 + 4 + 4) = 12**

Group - E

8. (a) Suggest any two Sustainable Development Goals which as a student you would like to implement in your educational institution and justify how it would be beneficial to the local community too. [[CO6](Analyse/IOCQ)]
 - (b) Growing Pollution and population, diminishing industrial output, food output and a steady depletion of natural resources would lead to an ecological and economic crisis. Explain which concept is being referred to and suggest any two solutions you find applicable for an individual to follow for reducing the impending danger. [[CO5](Evaluate/HOCQ)]
- 6 + (4 + 2) = 12**

9. **Electronic Waste in China: Guiyu**
 Guiyu in the Shantou region of China is a massive electronic waste processing community. It is often referred to as the "e-waste capital of the world."
 Traditionally, Guiyu was an agricultural community; however, in the mid-1990s it transformed into an e-waste recycling center involving over 75% of the local households and an additional 100,000 migrant workers. Thousands of individual workshops employ laborers to snip cables, pry chips from circuit boards, grind plastic computer cases into particles, and dip circuit boards in acid baths to dissolve the precious metals. Others work to strip insulation from all wiring in an attempt to salvage tiny amounts of copper wire.
 Uncontrolled burning, disassembly, and disposal has led to a number of environmental problems such as groundwater contamination, atmospheric pollution, and water pollution either by immediate discharge or from surface runoff (especially near coastal areas), as well as health problems including occupational safety and health effects among those directly and indirectly involved, due to the methods of processing the waste.
 Six of the many villages in Guiyu specialize in circuit-board disassembly, seven in plastics and metals reprocessing, and two in wire and cable disassembly. Greenpeace, an environmental group, sampled dust, soil, river sediment, and groundwater in Guiyu. They found very high levels of toxic heavy metals and organic contaminants in both places. Lai Yun, a campaigner for the group found "over 10 poisonous metals, such as lead, mercury, and cadmium."
 Guiyu is only one example of digital dumps but similar places can be found across the world in Nigeria, Ghana, and India. With amounts of e-waste growing rapidly each year urgent solutions are required. While the waste continues to flow into digital dumps like Guiyu, there are measures that can help reduce the flow of e-waste

Answer the following questions:

- (i) Development is a double edged sword- along with benefits there are many disadvantages also. Do you agree with this view? Give reasons. [[CO5,CO6](Analyze/IOCQ)]
 - (ii) What are basic principles of waste management? [[CO5,CO6](Understand/LOCQ)]
 - (iii) Suggest at least four detailed preventive steps to mitigate the problem of E-Waste. [[CO5,CO6](Evaluate/HOCQ)]
- (3 + 3 + 6) = 12**

<i>Cognition Level</i>	<i>LOCQ</i>	<i>IOCQ</i>	<i>HOCQ</i>
<i>Percentage distribution</i>	51.04	26.04	22.92

Course Outcome (CO):

The student will

- (i) be aware of the value system and the importance of following such values at workplace
- (ii) learn to apply ethical theories in the decision making process
- (iii) follow the ethical code of conduct as formulated by institutions and organizations
- (iv) implement the principles governing work ethics
- (v) develop strategies to implement the principles of sustainable model of development
- (vi) implement ecological ethics wherever relevant and also develop eco-friendly

**LOCQ: Lower Order Cognitive Question; IOCQ: Intermediate Order Cognitive Question; HOCQ: Higher Order Cognitive Question.*