

**University of Mumbai**  
**Examination First Half 2022 under cluster ALL**  
Examinations Commencing from 2<sup>nd</sup> June 2022 to 15<sup>th</sup> June 2022  
Program: **ALL\_Institute Level Optional Course 1**  
Curriculum Scheme: Rev2016  
Examination: BE Semester VII  
Course Code: ILO7019 and Course Name: Development Engineering  
Time: 2 hour 30 minutes Max. Marks: 80

<b>Q1.</b>	<b>Choose the correct option for following questions. All the Questions are compulsory and carry equal marks</b>
1.	To which type of engineers can code of ethics conceived by professional engineering societies be of any use
Option A:	Engineers who are licensed professionals
Option B:	Engineers who belong to professional engineering societies
Option C:	Engineers who are working in Public Sector Enterprise
Option D:	All those people who engage in engineering practice
2.	The Human Development Index ranks the countries based on their performance in the key areas of (1) health, (2) sex-ratio, (3) education (4) access to resources
Option A:	1,2,3
Option B:	2,3,4
Option C:	1,3,4
Option D:	1,2,4
3.	The power and functions of the Panchayats are listed in which schedule of the constitution
Option A:	Tenth
Option B:	eleventh
Option C:	Twelfth
Option D:	Thirteenth
4.	Which of the following description best describes the principles concerning professional ethics
Option A:	Professional duties must be judged by ethical standards independent of time, place and circumstance
Option B:	Judging professional duties always involves reciprocal adjustment between ends and means
Option C:	Professional duties must by nature be deontological, i.e. the end must not come at the cost of the means
Option D:	Professional duties must be judged only by what they achieve in line with the ends prescribed by the ideals of business
5.	The multi-dimensional poverty index is a measure developed by the
Option A:	UNCTAD
Option B:	World Bank
Option C:	International Monetary Fund IMF
Option D:	Oxford poverty and human development initiative , OPHDI , and the UNDP

6.	Which of the following is an appropriate general principle with regard to engineering ethics
Option A:	The engineer shall regard his duty to the public welfare as paramount to all other obligations
Option B:	The engineer shall regard his duty to the objectives of the company as paramount to all other obligations
Option C:	The engineer shall regard his duty to the Profession of engineering as paramount to all other obligations
Option D:	The engineer shall regard his duty to his excellence as paramount to all other obligations
7.	Which statement is not correct regarding Gram Sabha
Option A:	It is a body consisting of persons registered in the electoral rolls of a village comprised within the area of the Panchayat level.
Option B:	It is a village assembly consisting of all the registered voters in the area of the Panchayat.
Option C:	Its powers have been determined by the Central Government
Option D:	Its powers and functions at village level are like state legislature at the state level
8.	The 73rd amendment allocates seats in the panchayat to what groups other than women, and how many seats do these groups get
Option A:	SC and ST in proportion to their population
Option B:	One seat per minority tribe and one seat for each caste
Option C:	Two, a man and a woman, for each SC or ST
Option D:	1/3 of all seats are divided amongst women, SC and ST
9.	Which statement is true about Panchayati Raj
Option A:	The panchayat samiti and zilla parishad should be constituted with directly elected members.
Option B:	Minimum age should be 18 years to contest election at the panchayat level
Option C:	Election of the Panchayati Raj institutions is conducted under the guidance of the State Election Commission.
Option D:	For the financial review of Panchayats, the state Finance Commission is established after 6 years
10.	Which of the following is not one of the factors related to HDI
Option A:	Longevity
Option B:	Literacy
Option C:	Decent standard of living
Option D:	Increase in government jobs

Q2	Solve any Four out of Six	5 marks each
A	What are the functions of Panchayat Samiti	
B	What are self help groups ( SHG)? Explain their significance in rural development	
C	Explain the provisions of the 74 <sup>th</sup> amendment	
D	Explain the Gandhian philosophy of rural development	
E	What is a gram sabha and how does it contribute to the development of a village	

F	What are the various steps taken for inclusion of women and the members of the reserved category in decision making

<b>Q3</b>	<b>Solve any Two Questions out of Three</b> <b>10 marks each</b>
A	Explain in detail the 6 indicators of good governance on which the World Governance Index is based
B	Explain the concept of Sarvodaya, its principles, objectives and goals in detail
C	What are Self Help Groups? Explain its constitution and significance in rural settings

<b>Q4.</b>	<b>Solve any Two Questions out of Three</b> <b>10 marks each</b>
A	Explain the following and discuss their influence on the HDI of a nation: <ol style="list-style-type: none"> <li>1. IHDI- Inequality adjusted HDI</li> <li>2. GDI- Gender Development Index</li> <li>3. GII- Gender Inequality Index</li> </ol>
B	Explain the following terms: <ol style="list-style-type: none"> <li>1. Appropriate/Intermediate Technology</li> <li>2. Frugal Engineering</li> <li>3. Jugaad</li> </ol> What are the similarities and differences between them. Give atleast 5 examples of each
C	Give at least five examples of the use of ICT in rural development. Discuss each briefly