

A) Multiple Choice Questions:

1. According to this theory, when a choice exists among various alternatives, the market will take the one that offers the most efficient use and allocation of resources.
 - a) Set theory
 - b) **Classic economic**
 - c) Pool's theory
 - d) Social choice theory

2. The I-methodology ...
 - a) **assumes technology to be accessible equally to all.**
 - b) inscribes implicit gender stereotypes to a product.
 - c) analyzes gendered behaviours
 - d) strives to inscribe gender equality into technologies.

3. How does Martin Nakata define Cultural Interface?
 - a) The difference between Western and Indigenous domains.
 - b) The impact of Indigenous domains on Western domains.
 - c) The value of Indigenous knowledge.
 - d) **The intersection of Western and Indigenous domains.**

4. One way to define technology is in terms of
 - a) Social Progress
 - b) **Evolution**
 - c) Convenience
 - d) Impact

5. Economic/utilitarian perspective encourages:
 - a) **Assimilating into the majority culture/group**
 - b) Diversity in representation
 - c) Independence from economic exploitation
 - d) Inclusivity

6. A woman who models men's wear is an example of:
 - a) Visible + gender authentic
 - b) **Visible + gender inauthentic**
 - c) Invisible + gender inauthentic
 - d) Invisible + gender authentic

7. Resisters are those who:
 - a) Has used and does not find the technology appealing
 - b) Does not have access to the technology
 - c) **Does not want to use the technology**
 - d) Has involuntarily stopped using the technology

8. What are the four types of non-users?
 - a) Resisters, reflectors, projectors, acceptors
 - b) Expelled, reflectors, exposed, excluded
 - c) **Resisters, rejecters, excluded, expelled**
 - d) Acceptors, excluded, exposed, rejecters

9. A necessary gender approach when it comes to medicine and biological factors is:
- a) Gender deconstruction
 - b) Gender equality
 - c) Gender differences ←
 - d) None of the above
10. Which of the following types is not an example of non-users?
- a) Resistors
 - b) Rejectors
 - c) **Receded**
 - d) Expelled
11. Which of the following is not a way that a completing technology “wins”?
- a) Sells more
 - b) More research and development
 - c) More popular
 - d) **Better product**
12. What concept is defined when the percentage of a certain group of people in STEM related fields isn't the same as the percentage of that same group in the population?
- a) Diversity
 - b) **Underrepresentation**
 - c) Inclusion
 - d) Equity
13. Which statement is false regarding the humanistic perspective?
- a) STEM belongs to everybody.
 - b) The right to STEM is independent from economic exploitations.
 - c) **“Diversity” is used as a human resource.**
 - d) Everyone has a right to education.
14. In which case is the non-regulating behavior of the internet considered as a virtue according to Lawrence Lessig?
- a) **Free speech**
 - b) Nazi speech
 - c) Child pornography
 - d) Illegal businesses
15. What is “I methodology” according to Corinna Bath?
- a) Technology developing new models.
 - b) Technology that does not contribute to identity building.
 - c) **Designers integrating personal interests and preferences in their designs.**
 - d) Technology intended for women.
16. What example was not used by Robert Pool?
- a) Keyboards
 - b) Combusting cars
 - c) Nuclear weapons
 - d) **Mobile devices**

17. What are the two categories of concern about technology making according to Langdon Winner?
- a) Making and Use
 - b) Research and Doing
 - c) Designing and Evolving
 - d) Thinking and Analysing
18. How does Leo Marx define progress?
- a) Progress is if technology serves the social equity.
 - b) Progress is releasing a new version of iPhone.
 - c) Progress is accomplishing your goals in life.
 - d) Progress is the evolution of technology.
19. What is "Technological Somnambulism" according to Langdon Winner?
- a) Sleepwalking machines
 - b) Willing sleepwalk through the process of reconstituting the conditions of human existence.
 - c) Colonisation of technology over a long period of time.
 - d) Walking through life changing and not noticing.
20. A female engineer who is not "feminine" is considered:
- a) Visible/Authentic
 - b) Invisible/Authentic
 - c) Visible/Inauthentic
 - d) Invisible/Inauthentic (Gina Coody)
21. Which of the following is not one of four categories of difference?
- a) Gender
 - b) Race
 - c) Culture
 - d) Class
22. What is the cause of social inequity?
- a) Identity construction
 - b) Representation
 - c) Structure
 - d) All of the above
23. According to Winner which is not the best view of technology development?
- a) Cause and Effect
 - b) Form of Life
 - c) Mode of Life
 - d) Deconstructionist approach
24. A student who cannot afford to buy a car and takes the bus is considered what kind of non-user?
- a) Resister
 - b) Rejecter
 - c) Excluded
 - d) Expelled
25. Male Nurses and women engineers are examples of:
- a) Gender authentic and visible
 - b) Gender authentic and invisible

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- c) Gender inauthentic and visible
 - d) Gender inauthentic and invisible
26. Women as firefighters and men as nurses are an example of:
- a) Gender equality
 - b) Gender fluidity
 - c) Gender inauthenticity
 - d) None of the above
27. What is the meaning of STS?
- a) Science and technology studies
 - b) Social and technology studies
 - c) Social and techno scientific studies
 - d) Sophisticated and techno scientific studies
28. People from different backgrounds that enter engineering but don't make it till the end.
- a) Crooked ladder
 - b) Leaky pipeline
 - c) Lurking pipeline
 - d) Leading pipeline
29. Positive rights are rights that require:
- a) Faith
 - b) Actions
 - c) Positive impact on society
 - d) None of the above
30. STS is the abbreviation of:
- a) science technology society
 - b) society technical studies
 - c) science technology studies
 - d) science teaching studies
31. What does a "leaky pipeline" mean
- a) a pipe needs to be changed
 - b) metaphor for women that disappear from some careers
 - c) metaphor for employees who drop out of a career
 - d) metaphor for women who cry at work
32. The Genographics project wants blood from
- a) all indigenous people
 - b) all humans
 - c) only local indigenous communities
 - d) unmixed indigenous communities
33. The origin of the English term "technology" came from
- a) French "Technologie"
 - b) German "Technik"
 - c) Spanish "tecnología"
 - d) none of the above
34. What does STEM stand for?
- a) Science, Technocracy, Engineering & Mathematics

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- b) Science, Technology, Environment & Mathematics
 - c) **Science, Technology, Engineering & Mathematics**
 - d) Social inequality in Technology, Engineering & Maths
35. Which of the 4 social categories applies to Indigenous people inequality?
- a) Gender
 - b) Class
 - c) Body
 - d) **Race**
36. What paradox(es) makes women noticeable on engineering fields but not recognized as engineers? Only 1 answer.
- a) In/equality paradox
 - b) In/exclusion paradox
 - c) **authenticity and visibility paradox**
 - d) Normative paradox
37. Which of the following is NOT a category of non-users?
- a) Resisters
 - b) Expelled
 - c) Rejecters
 - d) **Eliminated**
38. What is Martin Nakata's critique of the western approach to Indigenous knowledge?
- a) Western scientist does not have the knowledge base to understand indigenous knowledge.
 - b) **Indigenous knowledge would be collected differently by indigenous people.**
 - c) Western science is not capable of integrating indigenous knowledge.
 - d) Indigenous knowledge collection should be done by conservationist.
39. Which is an example of "I methodology"?
- a) Voice recognitions in artificial intelligence
 - b) The internet
 - c) The digital City Amsterdam
 - d) **Both A and C**
40. Which is not a gendering strategy?
- a) Gender Equality approach
 - b) Deconstructionist approach
 - c) **Reconstructionist approach**
 - d) Gender difference approach
41. What would not be a reason for one to not use the internet?
- a) By choice
 - b) Lack of access
 - c) Bad experience
 - d) **Slow computer**
42. Which of the following is NOT one of the reasons why the steam engine failed?
- a) The recession broke the company
 - b) The founder did not have a broad vision for it
 - c) Lacking infrastructure
 - d) **The combustion engine was a better technology**

B) Fill in the Blanks:

1. Because technological object and processes have a promiscuous utility, they are taken to be fundamentally neutral as regards their moral standing.
2. The invisibility paradox in engineering for women is how women engineers are simultaneously highly visible as Women yet invisible as Engineers.
3. A major strand in postcolonial theory has been the interrogation of process of othering through which Western actors and institutions construct and maintain the barriers between Western culture and cultures deemed both different and inferior.
4. Invisibility paradox is a key for understanding why women engineers struggle to belong in engineering workplace culture.
5. Gender difference approach takes into consideration that different genders have different needs.
6. The two categories of non-users which are not affected by the lack of resource or access are resisters and rejecters.
7. The gender approach to avoid dominance of a certain gender in engineering is gender equality.
8. Gender in/authenticity and the invisibility paradox create issues for women engineers which men engineers, by virtue of being men, rarely have to experience.
9. According to Winner, technological determinism is the idea that technological innovation is the basic cause of changes in society and that human beings have little choice other than to sit back and watch this ineluctable process unfold.
10. Intersectionality is composed of different levels: Structure, Representation and Identity Construction
11. The Organization for Economic Cooperation and Development (OECD) is an intergovernmental economic organization with 36 member countries, founded in 1961 to stimulate economic progress & world trade.
12. The diversity project emerged in the early 1900s when a group of scientists proposed a global survey of human genetic diversity
13. Associating the color blue with boys and pink with girls is an example of Normative pressure.
14. The Genographic project is used to determine meanings & identities of indigenous people.
15. The belief that everybody has a right to STEM education and to participate in STEM follows a Humanistic perspective.
16. David Nye defines technology as the application of scientific knowledge for practical purposes, especially in industry.
17. The leaky pipeline is a metaphor that depicts diversity in terms of gender, race, class, and body, decreasing down the path.
18. The concept of Underrepresentation depicts a false representation of the actual population.
19. Invisibility pairs when a female engineer is not seen as a female engineer but either as a woman or an engineer.
20. According to Wendy Faulkner women are excluded from engineering due to gender in/authenticity & invisibility paradox
21. Genographic Project wants to draw blood from indigenous people because Inadmixture.
22. STEM stands for science, technology, engineering, & maths.
23. The reason why gasoline cars won over steam-powered cars had nothing to do with technical decisions, but rather popularity / market.

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24. Remington made changes to the typewriter by replacing the 'Period' key with the 'R' key to be able to type out TYPE WRITER without moving his fingers from the top row.
25. A process which contributes hegemonic order as common sense and normality by categorizing, labelling, tokenizing and stereotyping individuals is called Othering.
26. The idea that technology shapes society and we have to comply with it is called technological determinism.
27. In the text of Corinna Bath about feminist technology, when technology is created according to the perspective of creator itself is called I-methodology.
28. Once a technology has become the norm, anyone who chooses something else ends up paying premium: this is called technological lock-in.
29. People who seek the social equity of genders are feminist.
30. Spencer Wells believes the Genographic project will eliminate racism.
31. The construction of a man fit very well with the stereotype of an engineer.