

HS 200 SDG

Final Semester examination 2021: Total Marks 60: Time 5pm -6:30pm

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Hi, RATAN SEN. When you submit this form, the owner will see your name and email address.

1. Greenhouse Gas Protocol (GHGP) dataset used in the study (discussed in the class) was for:

(1 Point)

- ☐ Scope 1 emissions only
- ☐ Scope 2 emissions only
- ☒ Scope 1 and Scope 2 emissions only
- ☐ All three of Scope 1, Scope 2 and Scope 3 emissions.

2. The 2nd industrial revolution in the 19th-20th century is majorly dominated by electrical energy-based mass production.

(1 Point)

- ☒ True
- ☐ False

3. "If it is said that engineering design is based on a set rules for ensuring functionality" then Industrial design

(1 Point)

- ☒ Additionally looks into the use comfort of design along with users' compatibility features,
- ☐ Material construction details,

- ☐ Software development skill,
- ☐ Both are the same. no difference is there.

4. As a subject domain Ergonomics/ Human Factors concerns with
(1 Point)

- ☐ Study of human settlement in land boundary
- ☒ Design ideation and specification with users' utility comfort,
- ☐ Drilling machine detailed drawing specification,
- ☐ A component of mathematical formula for software development,

5. The emission made by the factory of a firm ABC Inc. is counted as:

(1 Point)

- ☒ Scope 1 emission of the firm ABC Inc.
- ☐ Scope 2 emission of the firm ABC Inc.
- ☐ Scope 3 emission of the firm ABC Inc.

6. Which one is the petroleum based biodegradable polymer
(1 Point)

- ☐ Poly (butylene-adipate-co-terephthalate) Option 1
- ☐ Polypropylene
- ☒ Bio- Polyethylene Terephthalate
- ☐ Polyethylene

7. Which country rank first in global agriculture production?
(1 Point)

- ☐ India

☒ China

☐ USA

☐ Japan

8. The following is one of the steps of additive manufacturing in the 3D printing process
(1 Point)

☐ Dark side

☐ Community tool

☒ STL file

☐ Heart valves

9. The economic, social, and environmental goals under good governance in the digital revolution is termed to be
(1 Point)

☐ Quintuple bottom line

☐ Quadruple bottom line

☒ Tipple bottom line

☐ None of the above

10. The data used in the study (discussed in the class) was for companies from:

(1 Point)

☐ SENSEX

☐ DAX

☐ NIKKEI

☒ S&P 500

11. The era of Anthropocene was categorized to be
(1 Point)

- ☐ Warm years, calm conditions, and stable climate on 1
- ☒ Warm conditions, Industrial development, and warm climate
- ☐ Machine supported and labor-saving work to enhance skills and capacities
- ☐ None of the above

12. "Universal Design India Principles" are taking care of
(1 Point)

- ☐ Ocean navigation design specially conceived for Indian coast,
- ☐ Waterways networking with weather forecasting for India,
- ☒ Considerations for utility product design specifications to suit Indian users,
- ☐ An obsoleted engineering curriculum in today's India.

13. Sustainable public procurement (SPP) is a process which can-
(2 Points)

- ☐ not generate benefit to the organization while reducing negative impacts on the environment
- ☒ generate income while reducing negative impacts on the environment
- ☐ generate benefits only to the organisation and not to society and the economy
- ☐ improve Positive social results while overlooking negative impacts on the environment

14. Which of the following is false
(2 Points)

- ☐ Palm oil (*Elaeis guineensis* Jacq.) grows only in the biodiversity-rich tropics.
- ☐ Because other oil crops have lower yields than oil palm, replacing them is not a solution.

- ☐ It is important for global food security and economic development.
- ☒ Palm oil demand is expected to grow at 10% per year until 2050.

15. Which of the following statement is not correct?

(1 Point)

- ☒ All bioplastics are biodegradable
- ☐ All biodegradable plastics are biopolymer
- ☐ Biodegradable plastics are compostable
- ☐ None of the above

16. Digitalization is not featured in The World in 2050 Initiative Agenda

(1 Point)

- ☐ True
- ☒ False

17. The sustainable development goals adopted in which year

(1 Point)

- ☐ 2016
- ☐ 2014
- ☒ 2015
- ☐ 2012

18. Reduction of the relationship between economic growth and environmental impacts is-

(2 Points)

- ☐ Resource decoupling
- ☐ Impact decoupling

- ☒ Environmental decoupling
- ☐ Production decoupling

19. Nauru's rapid rise and downfall is due to lack of-
(1 Point)

- ☐ market to export phosphate
- ☐ trade allies
- ☒ responsible consumption
- ☐ continuous colonial aggression

20. The number of mechanisms that can link digital dynamics with sustainable strategies to enable size fundamental transformations are
(2 Points)

- ☐ 8
- ☐ 5
- ☐ 3
- ☒ 6

21. In case of credit (loan) sought by fossil-fuel dependent firms, the so-called "Green-Banks" tend to:

(1 Point)

- ☐ Charge lower interest rates than the less fossil-fuel dependent firms
- ☐ Charge same interest rates as the less fossil-fuel dependent firms
- ☒ Charge higher interest rates than the less fossil-fuel dependent firms

22. About ___% of all the packaged food contains palm oil.
(1 Point)

- ☐ 25%
- ☒ 50%
- ☐ 35%
- ☐ 60%

23. The global "Material Footprint" increased between 2000 and 2017 is by __%.
(2 Points)

- ☐ 45%
- ☐ 50%
- ☒ 70%
- ☐ 90%

24. The final report of the Task Force on Climate Related Financial Disclosures (TCFD), released in 2017 recommended
(2 Points)

- ☐ A. Climate-related disclosure by firms
- ☐ B. Exempt highly polluting firms from regulations
- ☐ C. Restrict the availability of information about climate-related risk
- ☐ D Greater clarity about the financial exposure, resulting from climate-related risks
- ☒ Both A & D

25. The downside of the digital revolution:
(1 Point)

- ☒ Jobs under threatOption 1
- ☐ Decarbonatization
- ☐ Knowledge societies
- ☐ None of the above

26. Which of the following is correct sequence of step for process engineering?

Specify a process 2. Execute/Fabricate/Install 3. Plan/Design 4. Operationalize/Sustain

(2 Points)

- ☐ Option: A: 1-2-3-4
- ☐ Option: B: 2-3-4-1
- ☒ Option: C: 1-3-2-4
- ☐ Option: D: 4-3-1-2

27. How much biocontent present in Bio-based PET

(1 Point)

- ☒ 20%
- ☐ 25%
- ☐ 30%
- ☐ 50%

28. Artemisinin is

(2 Points)

- ☐ Anti-meningitis drug
- ☐ A compound derived from sweet wormwood
- ☐ Tu Youyou shared the Nobel Prize in 2015 for this drug
- ☒ Both 2 & 3

29. While talking "Go global sustainable design development" it should focus on

(1 Point)

- ☐ Finding foreign market to promote sale of local products,
- ☐ Products made by foreigners to be sold in local market,

- ☐ Foreign design specification for construction work for internal use,
- ☒ Towards quality life through varied Ideation in tune to target users' context specific characters.

30. Which of the following does not come under sustainable development goals 9?
(1 Point)

- ☐ Substantially increasing public and private research and development spending
- ☐ Substantially increasing the number of research and development workers per 1 million people
- ☐ Support domestic technology development, research and innovation in developing countries
- ☒ Promote lifelong learning opportunities for all

31. The following platform has the third-highest active users on social media is
(1 Point)

- ☐ Instagram
- ☒ Google+
- ☐ LinkedIn
- ☐ Twitter

32. Which of the following step is not there for the production of coconut water dessert (Nata De coco)?
(2 Points)

- ☐ Extraction of coconut water
- ☐ Fermentation of the coconut water with bacterial cultures
- ☐ Separating and cutting the produced fat of Nata de coco
- ☒ Heating the produce fat of Nata de coco
- ☐ Cleaning and washing off the acetic acid

⌋ Cutting and packaging

33. Which one is the protein based biodegradable polymer
(1 Point)

- ☐ Gums
- ☐ Starch
- ☒ Zein
- ☐ Chitin

34. Decoupling refers to relationship between
(2 Points)

- ☐ economic variables and infrastructure development
- ☐ greenhouse gas production and ecosystem degradation
- ☒ economic variables and environmental variables
- ☐ Gross Domestic Product (GDP) and the Human Development Index (HDI)

35. Bio-polyethylene is
(1 Point)

- ☐ Biodegradable
- ☒ Recyclable
- ☐ Fossil based polymer
- ☐ Compostable

36. The major challenges in the digital revolution is
(1 Point)

- ☐ Inequalities
- ☐ Civic rights

- ☐ Limited knowledge in government and public institutions
- ☒ All of the above

37. Biodegradable refers to
(1 Point)

- ☐ Bioplastics
- ☒ Compostable plastics
- ☐ Conventional plastics
- ☐ All of the above

38. If the total annual stock returns, and the risk-free stock returns, are 3.7 % and 3.5 %, respectively, then the risk premium is:
(1 Point)

- ☒ 0.2%
- ☐ 0.15%
- ☐ 0.1%
- ☐ 0.05%

39. Which one is the wrong statement
(1 Point)

- ☐ The concept of reuse, recycle and waste utilization comes under linear as well as circular economy
- ☐ Bio-polypropylene is non-biodegradable
- ☒ Poly (lactic acid) is a bioplastic
- ☐ Circular economy proposes to use products and materials with its maximum utility with minimum waste and pollution to the ecosystem

40. Poly (lactic acid) is
(1 Point)

- ☐ Bioplastic & Non-biodegradable
- ☒ Biodegradable & Non-bioplastic
- ☐ Both (i) and (ii)
- ☐ None of the above

41. Which one is not the goal of circular economy
(1 Point)

- ☐ Reducing pressure on the environment by minimizing waste
- ☐ Boosting economic growth
- ☐ Stimulating innovations
- ☒ Reducing competitiveness

42. There are eleven targets to create action for responsible consumption and production. Which one of the following is not included in the target?
(2 Points)

- ☒ Support developed countries' scientific and technological capacity.
- ☐ Implement the 10- year sustainable and production framework.
- ☐ Halve global per capita food waste.
- ☐ Promote universal understanding of sustainable lifestyles.

43. The identified year, wherein banks initiated the pricing of exposure, resulting from climatic policy of the firms is:
(1 Point)

- ☐ 2013
- ☒ 2015

☐ 2017

☐ 2019

44. Legislative and regulatory changes will make it incumbent upon the firms to

(1 Point)

☐ Increase their carbon footprint levels

☒ Decrease their carbon footprint levels

☐ Leave the carbon footprint levels unchanged

45. The digital divide relates to

A. Access to and use of digital technologies

B. Equalities to the concentration of knowledge, power and revenue

C. Disparities between technology provides and users

D. Social inclusion

(2 Points)

☐ A

☐ A&B

☒ A&C

☐ None of the above

46. Which of the following is not an objective of Sustainable Consumption and Production

- A. Reduction of resource use.
- B. Waste disposal
- C. Global literacy rate
- D. Reusability of products

(2 Points)

- ☒ C
- ☐ C and D
- ☐ B and D
- ☐ A

47. "The issues of sustainability concern with borrowing from future- and need to repay for future generations wellbeing in advance " may be linked with
(1 Point)

- ☐ Economic loan repayment to World Bank by a country,
- ☐ Human settlement and land demarcation for future use,
- ☐ Internal river water conservation,
- ☒ Overall policy framing for sustainable development on resource usage.

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