

March 4, 2008  
33 marks total

1. What country is the largest consumer of energy in the world?

- a) China
- b) Russia
- c) India
- d) United Kingdom
- e) none of the above

2. The largest energy producer in the world is

- a) Canada
- b) The USA
- c) Saudi Arabia
- d) Russia
- e) none of the above

3. The 3 Gorges Dam project is on the

- a) Huang Ho River
- b) Yangtze River also spelled Yangzi River
- c) Irrawaddy River
- d) Amazon River
- e) none of the above

4. The province with the highest installed ethanol production capacity is

- a) Quebec
- b) Saskatchewan
- c) Manitoba
- d) Ontario
- e) Newfoundland

5. The country in the world that exports the most oil to the USA is

- a) Saudi Arabia
- b) Iraq
- c) Russia
- d) Mexico
- e) none of the above

6. The country in the world with the highest known reserves of natural gas is

- a) Russia
- b) Indonesia
- c) Canada
- d) USA
- e) none of the above

7. Which of the following countries economies is the most efficient in its use of energy for each \$ of gdp produced

- a) Japan
- b) China
- c) USA
- d) Canada
- e) Gabon

8. Which of the following provinces has the largest hydro generation capacity

- a) Newfoundland
- b) Quebec
- c) Ontario
- d) Alberta
- e) British Columbia

9. The area of Canada with the greatest solar energy potential is:

- a) Southwest Ontario
- b) The southern area of the Prairies
- c) The West Coast
- d) The East Coast
- e) The Arctic

10. The country in the world with the greatest number of operating nuclear power plants is

- a) Canada
- b) Japan
- c) Russia
- d) France
- e) none of the above

11. The country in the world with the greatest amount of wind electrical generation capacity is

- a) Canada
- b) Japan
- c) Russia
- d) France
- e) none of the above

12. The world's second (as of 2005) largest producer of ethanol is Brazil, what is the source of the plant matter?

- a) switch grass
- b) wheat chaff
- c) sugar
- d) milk weed
- e) none of the above

13. Cellulosic Ethanol Production is

- a) the most widely used ethanol technology used in the USA
- b) can only be used with corn
- c) uses enzymes and catalysts
- d) uses waste plant matter
- e) c and d

14. E85 refers to

- a) fuel that is 85% biodiesel
- b) fuel that is 15% gasoline
- c) fuel standard established in 1985
- d) a and b
- e) none of the above

15. Jatropha is

- a) a catalyst used to make ethanol
- b) Indian city where alternate energy technology is important
- c) a plant that can be used to make biofuel
- d) location of a major geothermal well
- e) none of the above

16. Of the regions listed below which one has the highest per capita energy consumption

- a) Southeast Asia
- b) Central America
- c) North America
- d) sub Saharian Africa
- e) Korean peninsula

17. The country in the world with the greatest amount of cumulative solar electrical generation capacity is

- a) Canada
- b) Japan
- c) Russia
- d) France
- e) none of the above

18. Demand for oil at a global scale over the next 20 years is expected to

- a) decrease as biofuels become more important
- b) stay at about current levels
- c) increase more rapidly than the demand for nuclear power
- d) increase steadily
- e) c and d

19. What country has the world's largest conventional oil reserves

- a) Iran
- b) Kuwait
- c) Canada
- d) Oman
- e) none of the above

20. Which of the following countries is a member of OPEC (Organization of Petroleum Exporting Countries)

- a) Saudi Arabia
- b) Zambia
- c) Sudan
- d) Russia
- e) a and d

21. The country that exports the most oil to the USA is

- a) Saudi Arabia
- b) Iraq
- c) Russia
- d) Mexico
- e) none of the above

22. Which of the following is **not** a area where deep water oil drilling is taking place

- a) Sable Island
- b) Gulf of Mexico
- c) China
- d) Brazil
- e) West Africa

23. What has been the trend in Canadian oil sands production of crude oil since 1996?

- a) no discernible trend
- b) increasing
- c) decreasing
- d) steady
- e) sharply downward

24. Over the next few decades one of the main determinants of increased oil consumption will be

- a) greatly increased use of plastics
- b) increased car ownership in emerging economies
- c) increased use of oil for electricity generation
- d) increased car ownership in developed economies
- e) none of the above

25. The country with the highest known reserves of natural gas is

- a) Russia
- b) Indonesia
- c) Canada
- d) USA
- e) none of the above

26. Which of the following countries has the highest **per capita** consumption of natural gas?

- a) Mexico
- b) Indonesia
- c) Canada
- d) USA
- e) China

27. Which of the following countries has not yet laid claim to Arctic ocean oil reserves

- a) Russia
- b) Canada
- c) USA
- d) Denmark
- e) Norway

28. LNG stands for

- a) long-term natural gains
- b) liquified natural gas
- c) lignite natural gasification
- d) linear nocturnal gasification
- e) none of the above

29. The world's largest natural gas consumer in total consumption is

- a) Russia
- b) China
- c) USA
- d) Canada
- e) Iran

30. Which of the following statements is true about Alberta's oil sands

- a) oil can be economically produced at \$20 a barrel world market price
- b) Most of the leases are owned by Canadian firms
- c) a major component of the refining of the sand is chemical catalysts
- d) a major component of the refining of the sand is water
- e) they are all true

31. Which of the following is true about Canadian oil production since 1984

- a) it has been steadily increasing
- b) it has been steadily declining
- c) it has remained at a constant level
- d) imports of oil from the US have been required to meet demand
- e) b and d

32. Which of the following is true about international oil companies access to oil reserves

- a) it has been steadily increasing
- b) it has been steadily declining
- c) it has remained at a constant level
- d) they are accessing more remote locations
- e) b and d

33. Who are the 'New Seven Sisters'

- a) girlfriends of the seven dwarves
- b) international oil companies
- c) state owned oil companies
- d) the seven kinds of alternative fuel technologies
- e) none of the above