1. What where the three major technological developments discussed in this portion of the course? #1 from Chps.4-6

2. Who ran and maintained the grain mills after the fall of Rome? 4#5

3. The water powered factories during the medieval industrial revolution got their technology from_____. 4#5

4. The first computer bug was caused by a_____. Yellow Book pg. 49

5. Gears in the early mills were used for_____. 4#7

6. Which new weaving technologies were discussed during this portion of the course? 4#9-10,13 & 23-24

7. The first international center of exchange was in the _____ region of the country_____during the 12th Century. 4#11-12

8. What happened around 1300 to cause grain harvests fall short and place all of Europe in a weakened condition? 4#14

9. Between 1347-1350 over 30% of Europe's population perished from the "Black Plague." Today we know this disease was caused by_____. 4#15

10. What's the connection between the economic boom in the 15th century and inexpensive paper? 4#16

11. Why was the printing press important to future technological development? 4#17

12. The Jacquard loom used_____as the program for weaving design. 4#23-24

13. The 1890 USA census was completed in half the time using which new technology? 4#25

14. The tabulator used in the USA's 1890 census used_____to store data.

15. The first computer, the Mark 1 used_____to input data.

16. What is the value of the binary number 010110? 4#33-35

17. What is the binary equivalent of 35? 4#33-35

18. What is necessary for an animal virus to become a human pandemic Assignments & 4#26

19. What is an Achromatic lens and how does it work? 5#14

20. The acronym AM in time stand for? 5#11

21. What was the Looker? 5#13

22. We discussed three different clock mechanisms in class. What were the names of these different mechanisms? 5#8,9,12,17

23. From what technology was the idea for huntsman steel (crucible steel) taken from? 5#18

24. What was the trigger for the development of the dividing engine? 5#20

25. If one is lifting a 200 lbs.sack of flour using a combination of 5 pulleys and five lines supporting the load, then how much force will it take to lift it? 5#25

26. Which country according to Burke developed the first modern assembly line? 5#23

27. What was the first assembly line used to assemble? 5#25

28. Why did the assembly line and standard interchangeable parts flourish in the USA? 5#26

29. What is the difference between accuracy and precision? 5#27-29

30. The article titled "Taking the long way home" was about_____? 5#30

31. Which of the three major technologies discussed in this portion by Burke is most responsible for USA's wealth?

32. While on your sailing ship at exactly high noon, your chronometer says it's exactly 10:00 AM. What is the longitude difference and approximate distance between you and homeport? 5#30-33

33. What is the result from millions of years of anaerobic decomposition of plant material? 6#6

34. What is the result from million of years of anaerobic decomposition of marine life? 6#20

35. The byproducts of making coke from coal are coal gas, water and_____. 6#7

36. What product results from anaerobic decomposition of coal at high temperatures? 6#7

37. The Newcomen Engine was a_____? 6#8-10

38. How does the pressure inside a sealed container of steam change as the sealed container is cooled, condensing the steam into water? 6#8-9

39. James Watt amended Newcomen's steam pump with a_____? 6#12-13

40. What was used as the ignition source for Volta's Eudiometer? 6#18

41. Nicholas Otto made the first four-stroke engine. What fuel did he use and why was that fuel chosen for this engine? 6#19

42. What was the amendment to the four-stroke engine in 1892, which allowed it to use gasoline as the fuel? 6#22

43. What was the amendment to the four-stroke engine first used by Daimler motor company in 1900 in the first Mercedes automobile? 6#22

44. You set sail from Istanbul 41^0 N, 29^0 E and after several day sailing you embark upon a port on the West Coast of Italy. Your sextant tells your new latitude is 40^0 N while you chronometer at noon local time is saying its 1PM in Istanbul. What is your new longitude? 5#30-33

45. If one is lifting a 200 lbs. sack of flour using a combination of 5 pulleys and 5 lines supporting the load, then how much line must be pared out to lift the sack 3 feet? 5#25

46. How much work is employed lifting the sack of flour 3 feet? 5#25