Greenfield Tournament Bonus Round 5

1. (30 points) Identify these figures from the French Revolution, for 10 points each.
1. This was the king overthrown and executed during the Revolution.
    Answer: Louis XVI
2. He led during the Reign of Terror, but was executed himself in 1794.
    Answer: Maximilien Robespierre
3. Another French revolutionist, he fled to England, where he was stabbed in his bath by Charlotte
Corday, an incident depicted in a painting by David.
    Answer: Jean Marat

2. (25 points) 25-10 Identify the following physical process after one clue for 25 points, after two clues
for 10 points.
1. The process was developed by the Hungarian physicist Denis Gabor in the 1940's but had to wait
until the invention of the laser for practical application.
2. It is a system of recording light on a photographic plate or other medium in such a way as to allow a
three-dimensional reconstruction of the scene giving rise to the waves.
    Answer: holography or hologram

3. (25 points) In 313 AD the Roman Emperor of the West issued an edict granting religious toleration
of Christians within the Roman Empire. Name both this edict and the Emperor who issued it; you will
recieve 10 points for one of these, and 25 for both.
    Answer: Edict of Milan; Constantine I

4. (30 points) 30-20-10 Identify this American novel.
1. It is a 1929 novel narrated in four sections, three of them by brothers and draws its title from
Macbeth.
2. It is centered on the declining Compson family and is written in stream of consciousness.
3. Its first section is narrated by the idiot Benjy and it is one of William Faulkner's best known novels.
    Answer: The Sound and the Fury

5. (30 points) I will name an important piece of legislation in American history. You must tell me the
year in which it was passed for 10 points exactly. If you get within 5 years either way you will get 5
points.
1. Homestead Act
    Answer: 1862 (10) 1957-1867 (5)
2. Pendleton Act
    Answer: 1883 (10) 1878-1888 (5)
3. Clayton Anti-Trust Act
    Answer: 1914 (10) 1909-1919 (5)

6. (30 points) Answer these questions about the Great Lakes and the states with shorelines on them.
1. For 10 points, name ALL 3 states which border Lake Superior.
    Answer: Minnesota, Wisconsin, Michigan
2. For 10 points, name ALL 4 states which border Lake Michigan.
    Answer: Michigan, Wisconsin, Illinois, Indiana
3. For 10 points, name ALL 4 states which border Lake Erie.
    Answer: Michigan, Ohio, Pennsylvania, New York

7. (30 points) Given the following quotes from American poetry give the author for 5 points, the title of
the poem for 5 points.
1. "It sits looking over harbor and city on silent haunches then moves on"
    Answer: Fog by Carl Sandburg
2. "The land was ours before we were the land's".
    Answer: The Gift Outright by Robert Frost (read at Kennedy inauguration)
3. "Up from the meadows rich with corn,/clear in the cool September morn/The clustered spires of
Frederick stand/Green- walled by the hills of Maryland".   Answer: Barbara Frietchie by J.G. Whittier

8. (30 points) Answer the following questions about the current US computer industry for 10 points
each.
1. The IBM compatible clone industry is centered on the 80386 market. The original 80386 chips were

designed and built by what Calfiornia based company.
    Answer: Intel
2. What Redmond, Washington based software giant wrote the original operating system for IBM PC's.
    Answer: Microsoft
3. Recently Intel has suffered from some competition in the manufacture of its 80386 line of products. Name either of the two competing manufacturers.
    Answer: AMD (or Advanced Micro Devices) or Chips and Technologies

9. (30 points) 30-20-10 Identify this Greek god.
1. Because Greek tragedy developed at his festivals, he was regarded as the god of tragic art
2. When he was born premature to his mother Semele, Zeus saved him by sewing him up in his thigh until he matured.
3. He is best known by his association with wine.
   Answer: Dionysus

10. (30 points) If you follow disasters, you probably know there are two scales used to measure the severity of an earthquake. One measures the total energy released during the earthquake, the second merely asseses the effects of a quake on people in a particular place.
1. First, for 10 points, identify the power scale devised in 1935 by an American seismologist.
   Answer: Ricther scale
2. Now, for 20 points, identify the scale devised in 1902 by an Italian geologist which rates earthquakes from 1 to 12 depending on the damage they do.
   Answer: Giuseppe Mercalli

11. (30 points) 30-20-10 Identify this composer from his works.
1. The operas "The Clemency of Titus" and "The Abduction from the Seraglio"
2. The Linz, Prague, and Haffner Symphonies
3. the operas "The Magic Flute" and "Don Giovanni"
   Answer: Mozart

12. (30 points) 30-20-10 Identify this explorer.
1. In his first two voyages, in 1607 and 1608, he failed to go beyond Greenland in his travels though his goal was to discover a passage by the North Pole to Japan.
2. In June, 1611, during his third voyage, his crew grew tired of hardship, mutinied and set him adrift and he was never heard from again.
3. As commander of the Half Moon, he explored the river, bay, and strait which now bear his name.
   Answer: Henry Hudson

13. (30 points) One of the best-loved actors in history was Humphrey Bogart. Identify these Bogart films from descriptions of the characters he played, for 10 points each.
1. Tough but soft-hearted private eye Sam Spade.
   Answer: The Maltese Falcon
2. Tough but soft-hearted cafe owner Rick.
   Answer: Casablanca
3. Tough and slightly crazy prospector Fred C. Dobbs.
   Answer: The Treasure of the Sierra Madre
   Answer: Bogart

14. Identify the following characters from Charles DIckens's Great Expectations, for a stated number of points:
1) For five points, name the young man, born Philip Pirrip, who has great expectations.
   Answer: Pip
2) For ten points, name the eccentroc old woman who was jilted on her wedding day and who has brought up her adopted niece Estella to hat emen.
   Answer: Miss Havisham
3) For fifteen points, name the trasnported convict whom Pip helps in the first chapter and later becomes his patron.
   Answer: Abel Magwitch

15. (30 points) For 15 points each, name the 2 longest rivers in China.
   Answer: Yangtze River and Yellow River (also Hwang or Hwang Ho)

16. (30 points) For 10 points each, given a political party and year (or years), name the candidate which it nominated for President.
1. Constitutional Union, 1860.
   Answer: John Bell
2. Socialist, 1904, 1908, 1912, and 1920.
   Answer: Eugene V. Debs
3. States' Rights, 1948.

Answer: Strom Thurmond

17. For ten points each, answer the following questions about the periodic function $f(x) = 23\sin(2x-3) + 7$: (Note: do not approximate Pi)
1) What is the frequency of the function?
    Answer: 1 / Pi
2) What is the amplitude of the function?
    Answer: 23
3) What is the maximum value of the function?
    Answer: 30
4) What is the value of the value of the function for x = 1.5 + Pi?
    Answer: 7
5) What is the minimum value of the function?
    Answer: -16
6) If f(z) = 3/5, the what is the absolute value of f(z + Pi/2)?
    Answer: 4/5

18. Identify these natural polymers, for ten points each:
1) This carbohydrate is composed of long chains of monosaccharides. Used widely by plants as a structural polymer, it is the main constituent of cotton as well as the cell walls of higher plants.
    Answer: Cellulose
2) This polymer, similar in structure and composition to cellulose, is one of the chief constituents of the carapaces of insects and other invertebrates.
    Answer: Chitin
3) This polymer is made up of long chains of glucose and is used by both plants and animals to store energy.
    Answer: Starch

19. This English nobleman was an accomplished mathematician as well as a famous philosopher. An ardent social activist, he was imprisoned for demonstrating for nuclear disarmament while in his nineties. A founder of the doctrine of logical atomism, he is one of the towering figures of twentieth century philosophy. For ten points, name this author of Our Knoweldge of the External World, Marriage and Morals, and Why I Am Not a Christian.
    Answer: Bertrand Russell

20. (25 points) Pencil and paper ready. You have the equation H2 (gas) plus I2 (gas) in equilibrium with 2HI gas. For 25 points, if the concentrations of the compenents in the equation equal the following arbitrarily selected values, what is the value of the equilibrium constant for the equation? [H2]=2, [I2]=3, [HI]=6.
    Answer: 6 (k=[HI]^2 over [H2][I2] = 36/6 = 6)