# 'ENN BOWL 007 - MIT MANCHESTER UNITED - TOSSUPS 


#### Abstract

1) GEOG: Alfred de Vigny, Renan, Heine, Stendhal and Berlioz were all buried here. On the right bank of the Seine, this home of the Mulin Rouge has long been a favorite Bohemian hangout. FTP, give the name of the highest point in Paris, upon which the Church of Sacre Ceour stands.


_MONTMARTRE_
2) LIT-NON-WEST: Published in 1960, this book takes its title from T.S. Eliot's 'The Journey of the Magi'. In the book, Obi Okonkwo, a Nigerian educated on scholarship in England, returns to Nigeria. But, unable to bridge the gap between his lbo (EE-boh) heritage and the European elite with whom he associates due to his education, he loses his fiancee, takes bribes, and is caught. FTP name Chinua Achebe's sequel to Things Fall Apart.
_NO LONGERATEASE_
3) FA-ARCH: Taliesin East and Taliesin West are two buildings located, respectively, in Wisconsin and Arizona. The two buildings share not only a name, but a common purpose: they are the architectural schools devoted to teaching the principles of the architect who built them. In addition to the Taliesin buildings, this man designed the Guggenheim Museum, Winslow House, and River Forest Tennis Club. Name this architect of the "prairie style", after whom an Ayn Rand character was modeled.

FRANK LLOYD _WRIGHT_
4) REL-NON-WEST: She was one of the most important goddesses of ancient Egypt. Her name may be the Greek form of an ancient Egyptian word for "throne." This is perhaps appropriate for a goddess whose cult spread through the Middle East during the 1st millennium BC and the Roman period. Name this mother of Horus and wife of Osiris.
_IRIS_
5) CE: Both the NAACP and the Black Cacus have called for an official explanation of his untimely death as recent talk shows have focused attention on the "gunshot wound." FTP, name this American statesman who was killed in an air disaster along with 34 others in April, 1996 when his plane crashed into a Croatian mountain.

COMMERCE SEC. RON_BROWN_
6) LIT-THEATER: He wrote, "The progress of an artist is a continual self-sacrifice, a continual extinction of personality," in his

「radition and the Individual Talent." This poet and playwright first aspired to be a philosopher, but changed his mind after extensive reading on religion and the French Imagists. Name this Missouri native who penned "Four Quartets," "The Cocktail Party," and "The Wasteland."
_T.S. ELIOT_
7) HIST-ENGLISH: Henry Hunt escaped uninjured, but his white hat, staved by a sword, came to serve as a symbol for reform against the Torys. Along with William Cobbett, a radical journalist, he brought the movement for universal suffrage to its peak in Manchester on August 6, 1819. A crowd of 60,000 assembled on St. Peter's Field to choose a "legislative representative." FTP, the ensuing dispersal of the unarmed demonstrators, injuring 500 and slaughtering 11 by the British cavalry is known by what name?

THE _PETERLOO_MASSACRE
8) SCI-CHEM: This quantity was named by Roger Clausius in 1859; its differential form is defined as 'dq divided by T'. The 3rd law of thermodynamics states that for a pure crystalline solid this quantity is 0 at 0 degrees Kelvin, and the 2nd law states that for a reversible cycle the change in this quantity is 0 . FTP, name this quantity usually represented by the letter $S$.
_ENTROPY_
9) FA-MUSIC: Although he studied music in Paris and Frankfurt, he was one of the first to include native music in his works, helping to mold an independent American musical idiom. Asked to establish a music department at Columbia University in 1896, he resigned in 1904 because of disagreements with the school and lated suffered a mental collapse. FTP, name the composer of 'Indian Suite', 'Woodland Sketches,' and 'New England Idylls.'

EDWARD _MACDOWELL_
10) POP: This artist has spent recent years raising his son, Najei. His latest album, featuring a gospel choir and black and white portraits of children, was described as "a clip from a Sunday religious program" by Time magazine. FTP, name this rapper, who has found new fame as the star of "In The House"--but whatever you do, don't call it a come back.

```
_LL COOL J._
```

11) MISCELLANEOUS: "Satan, oscillate my metallic sonatas." "Stiff, O dairyman, in a myriad of fits." "Too far, Edna, we wander afoot." "Mad Zeus, no live devil, lived evil on Suez dam." "Sums are not set as a test on Erasmus." FTP, what 10 -letter word describes the arrangement
of letters in the preceding quotes?
_PALINDROME_
12) SS-LAW: Common law established individual marital property rights for both husband and wife. While the husband's rights, known as curtsey, became obsolete before modern times, the wife's rights did not diminish until the 20th century. Whether or not the bride had a dowery, she still has, FTP, what similar-sounding common law right?
_DOWER_
13) SCI-OTHER: This theorem central to analytical number theory was conjectured by Euler (OY-lur), Lagrange, Gauss, and others in the mid-1800s. However, it remained a conjecture until 1896, when Hadamard (ah-dah-MAHR) and de la Valles Poussin (vah-lehss poo-SAHNH) independently used the Riemann zeta function to prove it. FTP, name this theorem which states that as $x$ goes to infinity, the number of primes less than $x$ equals $x$ divided by the natural logarithm of $x$.
_PRIME NUMBER THEOREM_
14) LIT-PHIL: She believed that at the root of the world's problems lay the "second-hander," the man who lived off of the intellectual creator and lived for the approval of others. Name this founder of the Objectivist philosophy, who outlined her beliefs in novels such as "Anthem" and "Atlas Shrugged."

AYN _RAND_
15) HIST-ANCIENT: This battle, which occurred in 422 BC, saw the deaths of two great generals, Brasidas and Cleon. Shortly after this, the Peace of Nicias was signed. Name this battle, which was fought over an Athenian stronghold in Thrace of the same name.

BATTLE OF _AMPHIOLPOLIS_
16) FA-PAINTING: Born in 1483 at Urbino, his father was court painter to the Duke of Urbino. Pope Julius II requested he do the murals for the Papal Apartments, which he completed in 1511. In 1514, he was named successor to Bramante as cheif architect of the Vatican, for which he designed several churches an places, his masterpiece being the Palazzo Pandolfini in Florence. FTP, name this renaissance painter, best known for his Madonnas, including Madonna of the Goldfinch and the Sistine Madonna.
17) REL-MYTH: According to legend, he died as Apollo tried to teach him to throw the discus and Boreas deflected the discus so that it hit him. Thereafter, his death was celebrated by the Spartans in their 2nd most important festival, which lasted for 3 days in the early summer. FTP, name this man from whose blood a namesake flower is said to have sprung.
_HYACINTHUS_
18) MISCELLANEOUS: While he could translate Latin, Greek, Hebrew, Persian, and Syriac by the age of 14, math became his main interest when, at 15, he met Zerah Colburn. As a result, his writings involve papers on geometric optics, refraction, algebra, and dynamics as well as a few poems. FTP, name this man who in 1843 carved the relation i squared equals $j$ squared equals $k$ squared equals $i j k$ equals -1 into a bridge near Dublin.

Sir William Rowan _HAMILTON_
19) LIT-POETRY: This Prussian poet was much celebrated in his time. "A book of verses beneath the bough/ a jug of wine, a loaf of bread, and thou/ Beside me singing in the wilderness--/ O, wilderness were paradise now!" is a famous line from his most famous work, the "Rubiat." Name the author.

OMAR _KHAYYAM_
20) SS-ECON: Born in Rookery, Surrey, in February 1766, he attended Cambridge University. In 1805 he became professor of history and political economy at the East India Company's college in Haileybury, Hertfordshire, and he remained there the rest of his life. His main thesis, that increases in population will eventually diminish the ability of the world to feed itself serves as the basis for his 'An Essay on the Principle of Population'.

THOMAS _MALTHUS_
21) $\mathrm{SCl}-\mathrm{BIO}$ : This genetic disease is caused by the deletion of the short arm of chromosome 11 in humans, and its occurrence is often predicted by aniridia. Give the name of this disease, which is a form of cancer of the kidneys and is found almost exclusively in infants and young children.
_WILM'S TUMOR_
22) HIST-NON-WEST: Although it ended with a mass suicide of nearly all of the ruling samurai clan, this period marked the rise of the samurai in Japanese society and government. In particular, the period saw the banishment of Emperor Go-Toba in the Jokyu Disturbance and the samurai leaders' drafting of a legal code called the Joei Formulary. FTP, name
the period which began with the Minamoto clan's victory in the Gempei War of 1180-1185.
_KAMAKURA_PERIOD or _BAKUFU_
23) GEOG: Founded in 1420, Lo Manthang is the capital of this roadless province of Nepal. Closed by the government for 31 years from 1960 until 1991, it shares its name with both a type of horse and automobile. FTP, give the name of this once-forbidden province, pronounced differently than its Ford counterpart.
_MUSTANG_ (moo-stong)
24) FA-MUSIC: A Yale graduate and the founder and head from 1916-1930 of a successful insurance partnership, he is known for dissonant and polytonal compositions relating to New England culture. He won a Pulitzer Prize in 1947 for his 3rd Symphony; other works include 'The Unanswered Question', 'Variations on America', and 'General William Booth Enters Into Heaven'.

CHARLES _IVES_
25) REL-MYTH: With Hermes, she was a messenger of the gods. According to the Greek poet Hesiod, she was the daughter of Thaumas and the ocean nymph Electra. Name this goddess of the rainbow, who shares her name with a popular garden flower.
$\qquad$
26) SCI-PHYS: His model was substantiated with direct experimental evidence of discrete states in 1914 by Franck and Hertz. By describing the properties of electrons in terms of sets of allowed values, this Dane made a radical departure from classical descriptions of the atom. FTP, name this physicist, whose model of the atom was the first to incorporate quantum theory.

NEILS_BOHR_
27) CE: Marc Zigo lied to her, claiming to be a professional soccer player from Ireland. She recently published a book detailing her affair with Marc, but it received little public sympathy. FTP, name this shamed aviator, the first female US B-52 pilot, court-marshaled for her adulterous affair.

KELLY_FLYNN_
28) HIST-ANCIENT: He led the army that defeated the Spartans in the Battle of Leutra in 371 BC 20 before dying in 362 BC at the 2nd Battle of Mantinea. FTP, name this military genius who made Thebes the most
powerful army in Greece for the 9 years prior to his death.
_EPAMINONDAS_
29) POP: This Russian author was invaluable to the Bolshevik regime both before and after the revolution, but nonetheless his death may have been the result of a government conspiracy. Name this author of "The Lone Depths", a political play, and the novel "Foma Godeiev", whose name appears both in a Russian park and in the Scorpions song "Winds of Change."

MAXIM _GORKY_
30) POP: TWO ANSWERS REQUIRED. Seinfeld's finale is expected to set a new ratings record, surpassing final episodes of two other long-running series. Both shows shared Seinfeld's formula of shows about nothing, based around a physical location, although neither was based on an apartment; one was located in Asia, the other in an eating establishment. FTP, name them.
_CHEERS_ and _MASH_

## PENN BOWL 007 - MIT MANCHESTER UNITED - BONII

1) HIST-AMERICAN: Name the 1960s Supreme Court Case, 5-10-15:

5: This ruling in this 1966 case set requirements for police interrogations.
_MIRANDA v. ARIZONA_

10: In 1963, the court held that a Florida man did not have access to qualified counsel, requiring all states to supply public defenders in all felony cases.
_GIDEON v. WAINRIGHT_

15: This landmark 1962 case declared that urban Tennessee citizens lacked adequate representation due to the large percentage of representatives from rural districts in the state legislature.
_BAKER v. CARR_
2) GEOG: 5-10-15, answer these related questions about geography.

5: What city lies at the confluence of the Allegheny and the Monongahela, apparently one river short, according to its major league ball park.
_PITTSBURGH_
10: Pittsburgh was once known by what name, which now lives on as the name of one of the colleges overlooking the Allegheny.

FT._DUQUESNE_
15: What world capital was once known by the name of another Pennsylvania town, Philadelphia?
_AMMAN_, JORDAN
3) FA-PAINTING: 30-20-10 Name the art exhibit.

30: Louis Napoleon ordered that this show of about 3000 works take place for the first and only time in a pavilion in 1863.

20: Although the only other public art show in Paris at the time had rejected these works, calling them 'a serious danger to society', huge crowds came to see the exhibit.

10: This exhibit contained works by Manet, Cezanne, and Pissarro, among others, and is often considered the beginning of modern painting.
4) POP: While Cuba Gooding Jr. only asked Tom Cruise to "Show me the money," he was surely happy to win the Oscar for best supporting actor in "Jerry McGuire" as well, and rightly so; it was a rare accomplishment for an African American. For five points each, five more for all correct, give the name of the black winner of an acting Oscar given the year.

| 1939 | HATTIE _MCDANIEL_ |
| :--- | :--- |
| 1963 | SIDNEY_POITIER__ |
| 1982 | LOUIS__GOSSETT_JR. |
| 1989 | DENZEL_WASHINGTON_ |
| 1990 | WHOOPI_GOLDBERG_ |

5) SCIENCE-PHYS: Name the physical process, 5-10-15.

5: In this process, which cools liquids, atoms and/or molecules of a liquid with a great deal of kinetic energy break free of the liquid and exist in the gaseous state.
_EVAPORATION

10: FTP, name the process of a substance changing from a solid state to a gaseous state.
_SUBLIMATION_
15: When a solid is placed under pressure, it often melts. Once the pressure is removed, it resolidifies. Give the name of this freezing process for 15 pts.
_REGELATION_
6) LIT-MISC: Name the following authors on a $5-10-15$ basis, each of whom took his or her own life.

5: This poet committed suicide by placing her head inside an oven in 1963, shortly after the completion of her only novel, "The Bell Jar."

SYLVIA _PLATH_
10: Given this author's considerable success during his lifetime, including the attainment of a Nobel Prize in Literature, it is somewhat ironic that he shot himself in 1961. Name this author of "Death in the Afternoon" and "To Have and Have Not." '

ERNEST _HEMINGWAY_
15: He ended his life by jumping off a boat into the Caribbean when he was only 33 , so his body of work is rather small. It includes the collection of poems "White Buildings" and the unfinished national epic "The Bridge."
_HART CRANE_
7) GEOG: Humphrey Borgart and Ingrid Bergman may have made Casablanca the most famous city in Morocco, but it is only one of the four holy cities in Morocco. For 10 points a piece, name the other three.
_RABAT_, _MARAKESH_, and _FEZ_
8) HISTORY-AMERICAN: FTP, President Andrew Johnson vetoed the first Civil Rights Act, passed in what year?

1866
For five points a piece, give the other four years during which a Civil Rights Act has been passed.

1875, 1957, 1960, and 1964
9) SS-PSY: Eric Erikson divided life into 8 stages. For 10 points each, identify the following Eriksonian stages from their descriptions.

In this first stage of life, the infant learns to place faith in the adults around him, particularly his mother. Failure to do so can cause difficulty later in life, for the child has no basis on which to orient his world.

BASIC _TRUST VS. MISTRUST_
This stage, seen in adolescence, is the struggle to understand the self, especially in terms of gender behavior and society's expectations.
_IDENTITY VS. ROLE_CONFUSION
In this last stage of life, the elderly person must achieve the ability to look back on his life as a meaningful whole. Failure to do so results in wishes to "redo" life.
_EGO INTEGRITY VS. DESPAIR_
10) POP: How could we possibly have a tournament on Super Bowl weekend without a question about the biggest venue for TV commercials ever? Answer these questions about the big game for the stated number of points.

John Elway's back in the SuperBowl for the fourth time, and he's hoping to avoid becoming not only a four time loser, but keeping Denver from becoming the only team to lose five Superbowls. For five points each, what other two teams have lost four times?
_BUFFALLO BILLS_ and _MINNESOTA VIKINGS_
Denver also holds the record for being beaten the worst. FTP, what team demolished Denver $55-10$ in their last trip to the Superbowl?

This year Terrell Davis will help Elway shoulder the load, but previously he's had to do it all himself. Four five points each, who are the only two quarterbacks to attempt more passes in their Superbowl careers?

JOE _MONTANA_ and JIM _KELLEY_ (both in 4 games)
11) REL-JUD/CHRIST: $30-20-10$, name the old testament city.

30: Some archaeologists believe it was settled as early as $8,000 \mathrm{BC}$.
20: Today its mild climate makes it a winter resort and year-round source of fruits and vegetables for Jordan.

10: According to the bible, the Israelites marched around it for seven days before the walls fell and Joshua led them in.
_JERICHO_
12) FA-PAINTING: 30-20-10, name the artist.

30: While still a teenager in 1849, he tried to join the navy and sailed on the training ship Guadelopue, bound for Rio De Janeiro.

20: His most famous work is a modernization of Giorgione's Le Concerte Champetre, exemplifying his belief that the importance of a painting lies not in its subject, but in how it's rendered.

10: Best known for La Dejeurner sur L'Herbe, his other works included The Bar at the Follies-Bergere, The Absinthe Drinker, and Olympia.

EDOUARD _MANET_
13) MISCELLANEOUS: 30-20-10 Name the book.

30: Its literary references include 89 epigraphs taken from writings by Darwin, Tennyson, Marx, Arnold, Martin Gardner, Thomas Hardy, and Lewis Carroll. Its last line quotes the last line of Arnold's 'To Marguerite'.

20: Published in 1970, it seems to emulate a Victorian novel. However, its narrator's frequent commentary - including almost all of chapter 13 - and the book's 3 different endings show its relative modernity.

10: The story tells of Charles Smithson, an English nobleman who is drawn out of his engagement to Ernestina Freeman, his rank, his home, and many of his friendships by Sarah Woodruff's deception and what that deception makes him realize about himself and Victorian society.

THE_FRENCH LIEUTENANT'S WOMAN_
14) LIT-POETRY: 30-20-10 Name the poet from first lines of 3 of his poems.

30: 'Oft I had heard of Lucy Gray:/ And, when I crossed the wild,/ I chanced to see at break of day/ The solitary child.'

20: 'Five years have past; five summers, with the length/ Of five long winters!'

10: 'Up! up! my Friend, and quit your books;/ Or surely you'll grow double:/ Up! up! my Friend, and clear your looks!/ Why all this toil and trouble?'

WILLIAM _WORDSWORTH_
15) HISTORY-AMERICAN: 30-20-10 Name the institution.

30: Amos Throop started it on September 1st, 1891 when he rented the Wooster Block, its 1st building, for 5 years.

20: Through George Ellery Hale, a solar astronomer and graduate of MIT, it acquired the Palomar Observatory; an optics laboratory; Arthur Noyes, Hale's former chemistry professor; and Robert Millikan, who became its president.

10: It is associated with the discovery of the different purposes of the left and right brains, the invention of the Richter scale, the discovery of quasars, and the discovery of the positron.
_CALIFORNIA INSTITUTE OF TECHNOLOGY_ or _CALTECH_
16) SS-PSY: It's time to brush up on those Freudian defense mechanisms. Identify each from a description.

Bob hates his calculus professor, but feels that this is an inappropriate emotion, so he becomes convinced that he doesn't hate his professor at all; in fact, he adores him.

## _REACTION_FORMATION

Bob hates his English professor, but he comes to believe that he doesn't hate his professor; his professor hates him.
_PROJECTION_
Bob fails all of his midterms. To avoid feelings of incompetence and despair, he begins to emulate the actions of his beloved calculus professor. He begins to dress like him, talk like him, and act like him.
_IDENTIFICATION_
17) FA-MUSIC: The symphony's name's the same. For ten points a piece, given works by two different composers, supply their shared common name.

```
Vaughan William's 2nd and Haydn's 104th
Haydn's 82-87th and Mozart's 31st
```

```
_LONDON_
```

_LONDON_
_PARIS_

```
_PARIS_
```

18) REL-MYTH: For 15 points each, name these characters from the Mabinogion.

Perhaps the most famous myth about this huge deity tells that he asked his companions to behead him because he was mortally wounded. He then prophesied that his head wold entertain them on their travels and resist rotting unless they opened a forbidden door which would send them back to the real world.
_BRAN_
She first appears in the Mabinogion riding a pale horse. She marries King Pwyll but later, wrongly accused of having killed her baby son, is forced to act like a horse and carry visitors to and from the royal court.
_RHIANNON_
19) SCIENCE-BIO: Thanks to Dolly, Molecular Biology is all the rage. Answer these questions for the stated number of points.

Both DNA and RNA contain information encoded in nitrogen bases.
These bases fall into one of two categories: purines and pyrimidines. For 5 pts. each, give the names of the two purines found in DNA.
_ADENINE_ and _GUANINE_
For an additional 5 pts. each, give the names of the pair of pyrimidines found in RNA.
_URACIL_ and _CYTOSINE_
RNA can be converted to DNA through a certain enzyme found in retroviruses. Give the name of this enzyme.
_REVERSE TRANSCRIPTASE_
20) HIST-ANCIENT: For five points a piece, with a five point bonus for all correct, correctly match the 5 Good Emperors of Ancient Rome with their reign.

96-98 AD
98-117
117-138
138-161
161-180
_NERVA_
_TRAJAN_ _HADRIAN_
_ANTONINUS PIUS_
_MARCUS AURELIUS_
21) LIT-MISC: Name these writers for 15 points each.

A 3-time winner of the Pulitzer Prize, he also served in the US Army during World War I, was Librarian of Congress from 1939-1944, and was an assistant secretary of state from 1940-1945. Among his works
are the poems 'Memorial Rain' and 'Immortal Autumn' and the plays 'Nobodaddy', 'This Music Crept by Me upon the Waters', and 'Conquistador'.

## ARCHIBALD _MACLEISH_

Son of an investment banker, he is known for his poems' wit and display of skill with poetic form. Many of his poems, including the 17,000-line epic 'The Changing Light at Sandover', are autobiographical; he also wrote plays, novels, essays, and a memoir titled 'A Different Person'. He died in 1995.

JAMES I. _MERRILL_
22) MISCELLANEOUS: $30-20-10$ Name the work.

30: Its most prolific contributors were probably Dr. W. C. Minor, an inmate at a hospital for the insane, and James Platt.

20: While its 1st volume appeared in February 1884 under the direction of James Augustus Henry Murray, its 12th didn't appear until 1928, and supplements have appeared as late as 1989.

10: It attempts to record the changing meanings, uses, and spellings of every English word since 1150 and now contains 615,000 entries.

THE _OXFORD ENGLISH DICTIONARY_or_OED_
23) CE: $30-20-10$ Name the American:

30: Raised by working class parents in Detriot and LA, his first name was Salvatore.

20: After his divorce in 1974, he entered the restaurant biz in 1982 after several failed acting attempts. His restaurant flourished, causing him to open another in Palm Springs.

10: His annoyance with the zoning restrictions of Palm Springs caused him to run for Mayor. His political career took off, launching him all the way to Congress, where he sat until his unfortunate passing on a sky slope.

SUNNY _BONO_
24) FA-OPERA: For five points a piece, and a bonus five for all correct, give the country each of the following operas is set in.

Rigiletto
Carmen
Aida
Falstaff
Turandot
_ITALY_ _SPAIN
_EGYPT_
_ENGLAND_ _CHINA_
25) POP: $5-10-15$ We all know the Maytag repairman just hung it up, but how
much do you know about his faithful canine companion?
5: What was the dog's name?
_NEWTON_
10: What bread of dog was Newton?
_BASSETT_HOUND
15: What is the significance of the name Newton?
_MAYTAG WAS FOUNDED IN NEWTON_, IOWA
26) REL-MYTH: If Zeus were an animal, he would have been a rabbit. For five points each, given the result of one of Zeus' romantic interludes, name the co-conspirator.

Dionysus
Persephone
Aphrodite
Hercules
Hermes
Apollo and Artemis

27) CE: 5-10-15 Answer these questions about the US Space program.

5: NASA is rumored to be set to announce that this man, one of it's most famous Astronauts will be headed back into space after a 30 year hiatus.

JOHN_GLENN_
10: John Glenn's first space flight was the first US orbital mission, part of the Mercury project. For ten points, what was Glenn's spaceship called?
_FRIENDSHIP 7_
15: L. Gordon Cooper, Jr. flew in the last and longest Mercury flight, orbiting the earth 22 times before being recovered 34 hours and 20 minutes later. For 15 points, what was the last Mercury vessel named?
_FAITH 7_
28) LIT-ANCIENT: 5-10-15 Identify the following ancient writers by their nationality and a well-known work.

| 5: Greece; "The Apology" | _SOCRATES__ |
| :--- | :--- |
| 10: Rome; "The Satiricon" | _PETRONIUS_ |
| 15: Egypt; "The Satires" | _JUVENAL_ |

29)SCIENCE-CHEM: For 5 pts. each, give the shapes of each of the following molecules, given their molecular formulas:

| BrF5 | _SQUARE PYRAMIDAL_____ |
| :--- | :--- |
| PCl5 | _-_RIGONAL BIPYRAMIDAL_ |
| SF6 | _OCTAHEDRAL___ |
| AICl3 | _TRIGONAL PLANAR_ |

30) SCIENCE-MISC: FTP each, name the constellations.

This zodiac constellation contains the Pleiades and the Hyades, the star Aldebaran, and the Crab Nebula. From the northern hemisphere, it can be seen during autumn and winter evenings between Perseus and Orion.
_TAURUS_ or THE _BULL_

This small constellation contains the Ring Nebula as well as the star Vega, one of the vertices of the Summer Triangle. Placed close to Cygnus, Aquila, and Hercules, it can be seen high in the sky during summer evenings in the northern hemisphere.
_LYRA_ or THE _LYRE_
This constellation is placed next to Perseus, its namesake's husband, and Cassiopeia, its namesake's mother. In it can be seen the galaxies M32 and M110 as well as the galaxy nearest to the Milky Way.

