

1991 Florida High School Academic Tournament

Introduce yourself.

Welcome participants, give round number and the significance of this particular competition. Third-place team members and coach receive a championship ring from Herff Jones, Inc. Second-place team members receive an \$800 Barnett Scholarship for Academic Excellence. Team members and coach each receive a championship ring from Heff Jones, Inc. The Division 1 state championship team members each receive a \$1,200 Barnett Scholarship for Academic Excellence. Team members and coach each receive a championship ring from Herff Jones, Inc.

Have judges, scorekeepers and student helpers introduce themselves. (Judges should give their name and the areas in which they will be judging only.)

Have the team coaches come forward to introduce himself/herself and team members.

Conduct a button check.

Begin 5-point question round.

HUM 1. Name the Medieval poet often called the first Italian humanist.

Answer: Petrarch (accept: Francesco Petrarca)

(Source: The Humanities, Vol. 1, Mary Ann Frese Witt et al, p. 223)

SS 2. Which one of the following four did the Granger laws attempt to regulate?

- A. hours and wages for industrial workers
- B. money supply
- C. farm production
- *D. railroad and warehouse rates

SCI 3. Fill in the blank with the missing rational number.

A marine weather station reports waves along the shore that are 8 seconds apart. The frequency of the waves is therefore _____ Hertz.

Answer: $\frac{1}{8}$ (accept: 0.125)

MATH 4. Find the area in square inches of the quadrilateral formed by joining the midpoints of the sides of a square with area of 2 square inches.

Answer: 1

ENG 5. Match each of the four Greek terms to the appropriate definition.

<u>Terms</u>	<u>Definitions</u>
1. hamartia	A. purgation
2. catharsis	B. part of choral ode
3. hubris	C. tragic flaw
4. strophe	D. excessive pride

Answer: 1-C, 2-A, 3-D, 4-B

(Source: Lazarus and Smith, Glossary of Literature and Composition)

SCI 6. This is a two-part question.

Part 1: What constellation contains Deneb, Sadir, and Albireo?

Part 2: What is the common name of this constellation?

Answer: Part 1: Signus
Part 2: Northern Cross (accept: The Swan)

(Source: Astronomy: the Evolving Universe, by Michael Zeilik)

MUS 7. Name two of the three Shakespearean characters upon which Verdi based three of his operas.

Answer: (any two) Macbeth, Othello, Falstaff

MATH 8. In simplest form, find the exact unit distance from the point (6, 2) and the line given by the parametric equations $x=4+t$ and $y=2-t$.

Answer: $\sqrt{2}$

SCI 9. Which one or ones of the following four contribute to speciation?

- *A. natural selection
- B. large gene pool
- *C. genetic barriers
- *D. geographical barriers

For the next question you will use handout 8-1. Do not distribute this until you are instructed to do so. (pause) You may distribute these face up.

ENG 10. Which one of the four diagrams on the handout should be used for the following sentence?

The girl who sat beside me is my cousin.

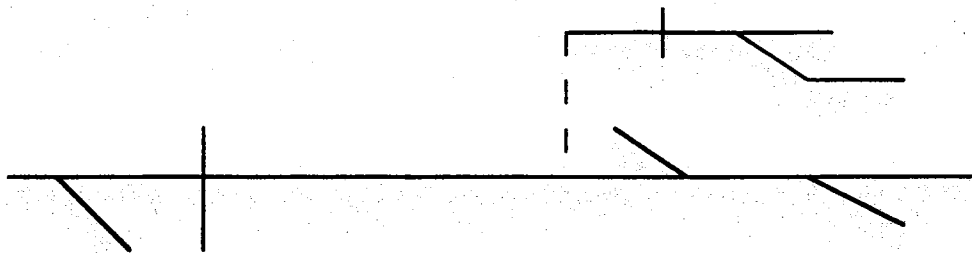
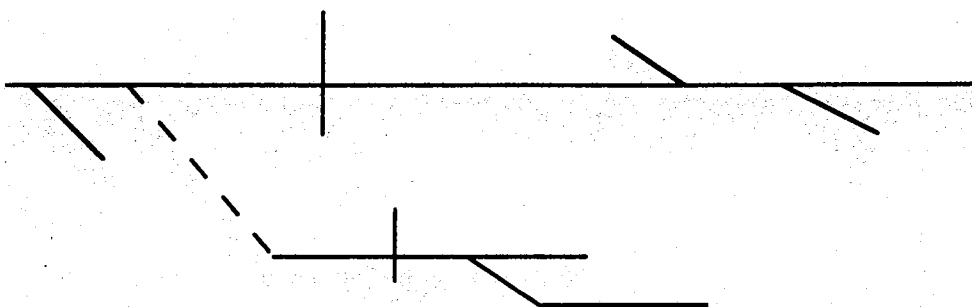
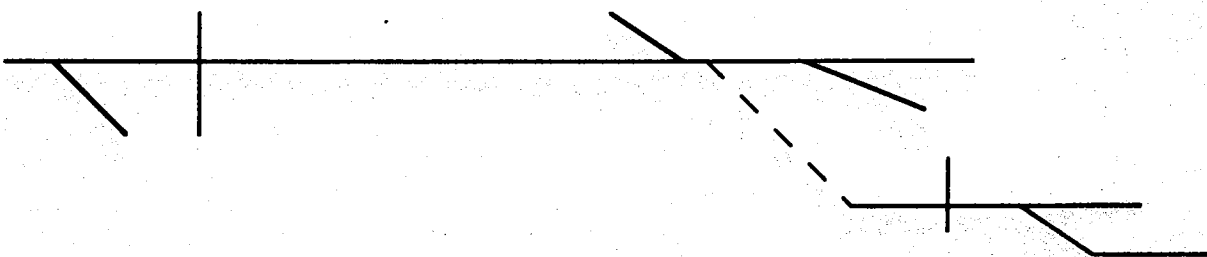
Answer: B

SS 11. Name the only U.S. Supreme Court justice ever impeached.

Answer: (Samuel) Chase

(Source: Encyclopedia of American History, Morris, p. 160)

Handout 8-1

A.**B.****C.****D.**

- ENG 12. This is a two-part question. Part 1: Give the literary term meaning a sudden revelation of the essential nature of a person or situation. Part 2: Name the author who originated its use.

Answer: 1. epiphany
2. (James) Joyce

- SS 13. Match each of the four men to the area he explored.

<u>Explorers</u>		<u>Areas</u>	
1.	Vasco da Gama	A.	Mississippi River
2.	John Cabot	B.	North American Coast
3.	Louis Joliet	C.	Southwestern United States
4.	Cabeza de Vaca	D.	Cape of Africa and India

Answer: 1-D, 2-B, 3-A, 4-C

- MATH 14. Neglecting the constant of integration, if the derivative of f of x and the integral of f of x both equal f of x , what is f of x ?

Answer: e^x

- SCI 15. Match each of the four quantum numbers to the part of an addressed envelope which is analogous to its function.

<u>Quantum Numbers</u>		<u>Parts of Addressed Envelope</u>	
1.	n	A.	house number
2.	l	B.	city
3.	m_l	C.	street
4.	m_s	D.	state

Answer: 1-D, 2-B, 3-C, 4-A

- ENG 16. Which one of the following four books by Zora Neale Hurston tells of the devastating hurricane that hit South Florida during the 1920's?

- A. Of Mules and Men
*B. Their Eyes Were Watching God
C. Jonah's Gourd Vine
D. A Land Remembered

- ART 17. Name the American architect who in 1954 patented the geodesic dome.

Answer: (R.) Buckminster Fuller

ECON 18. Answer either increase or decrease to indicate the fiscal or monetary action that may be used by the Federal government to correct rapidly increasing unemployment.

1. discount rate
2. taxes
3. reserve requirement
4. federal spending

Answer: 1. decrease
2. decrease
3. decrease
4. increase

MATH 19. Find the real simplified value of x such that $x \log_2 3 = \log_{10} 3$.

Answer: $\log_{10} 2$

HUM 20. Who am I? I appear in three of Shakespeare's plays, and my death is reported in Henry V.

Answer: (Sir John) Falstaff

End of 5-point round.

Begin 10-point team question.

Read: For this team question you will be given Handout 8-2.

Do not distribute the handouts until you are instructed to do so. This team question is worth 10 points. Each question is worth one point.

You will be given 3 minutes. Please identify one handout as your team answer sheet in the upper left-hand corner.

Begin.

Time 3 minutes.

STOP!

Identify one handout as your team answer sheet and hold it in the air. The judges will correct your work.

Handout 8-2

Team # _____

Fill in the blanks with the correct BASIC programming command.

1. The _____ command tells the computer to erase any program currently in active memory.
2. The _____ command is used to display the program statements on the video screen.
3. The _____ command is used to execute a program after it has been typed.
4. The _____ command tells the computer to copy the program currently in active memory to an auxiliary medium.
5. The _____ command tells the computer to retrieve a file from an auxiliary storage medium and place it in active memory.

Match the explanations with the BASIC programming examples below.

- _____ 6. sets up a loop that is executed a stated number of times
- _____ 7. transfers control from the calling program to a subroutine
- _____ 8. unconditional transfer of control
- _____ 9. transfers control to one of several subroutines, based on the evaluation of a mathematical expression
- _____ 10. transfers control to other statements, based on the evaluation of a mathematical expression

- A. 260 GOSUB 1000
- B. 190 ON X GOTO 120, 140
- C. 250 FOR X = 1 TO 20 STEP 2
- D. 180 ON X GOSUB 100,200
- E. 150 GOTO 250

Read answer: (one point each)

1. NEW
2. LIST
3. RUN
4. SAVE
5. LOAD
6. C
7. A
8. E
9. D
10. B

(Source for 1-5: Fundamentals of BASIC Programming: A Structured Approach, Mendell and Mendell)

(Source for 6-10: Understanding Structured Programming in BASIC, Bauman and Mandell)

Announce scores from team question.

Two-minute break. (All coaches should report to scorekeepers whether substitutions are made or not.)

Announce scores after the round.

Begin 10-point question round.

ENG 21. Which one of the following four characters is paired with the wrong novel?

- A. Ashley Wilkes--Gone With the Wind
- B. Barkis--David Copperfield
- *C. Bigger Thomas--Return of the Native
- D. Bernard Marx--Brave New World

FL 22. During the Republic, the typical Roman name had three parts. Name the three parts in the order they usually appeared.

Answer: praenomen, nomen, cognomen

SS 23. Match each of the four years to the event which occurred in it.

<u>Years</u>	<u>Events</u>
1. 1901	A. National Organization of Women formed
2. 1920	B. International Ladies Garment Workers Union founded
3. 1966	C. Nineteenth amendment ratified
4. 1981	D. First woman appointed to the Supreme Court

Answer: 1-B, 2-C, 3-A, 4-D

(Source: Triumph of the American Nation)

MUS 24. Which one of the following four works is based on the poems of anonymous thirteenth century monks and is written in Latin and German?

- *A. "Carmina Burana" by Carl Orff
- B. "The Three-Penny Opera" by Kurt Weill (Vile)
- C. "Tannhäuser" by Richard Wagner
- D. "Die Meistersinger" by Richard Wagner

MATH 25. Find the interval of convergence for the summation from $n = 1$ to infinity of the quantity x raised to the n th power divided by n .

Answer: $[-1, 1)$ (accept: $-1 \leq x < 1$)

ENG 26. Which one or ones of the following four writers are considered existentialists?

- *A. Soren Kierkegaard
- *B. Albert Camus
- C. Antoine de Saint-Exupery
- *D. Jean-Paul Sartre

For the next question you will be given Handout 8-3. Do not distribute these until you are instructed to do so. (pause) Distribute these face down. (pause) You may turn these over.

MATH 27. This is a two-part question. Part 1: Which one of the four graphs illustrates a relationship of the notes? Part 2: State the equation of the graph.

Answer: Part 1: D, Part 2: $y = 2^x$ (accept: $f(x) = 2^x$)

SCI 28. Name the planets in our solar system which have a density of less than one gram per cubic centimeter.

Answer: Saturn, Pluto (note: 0.69 and 0.9)

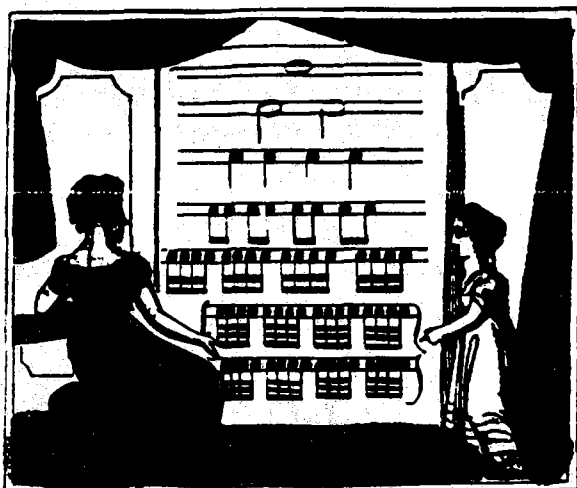
(Source: Earth Science, Silver Burdett)

SS 29. Identify the two African countries that were led by the following men.

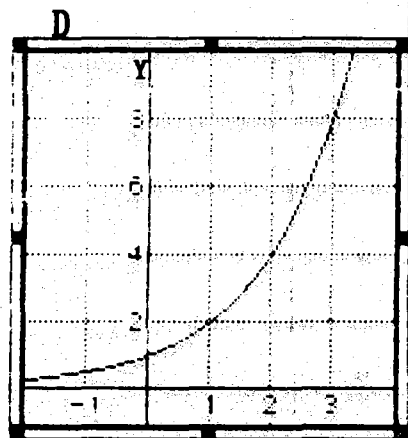
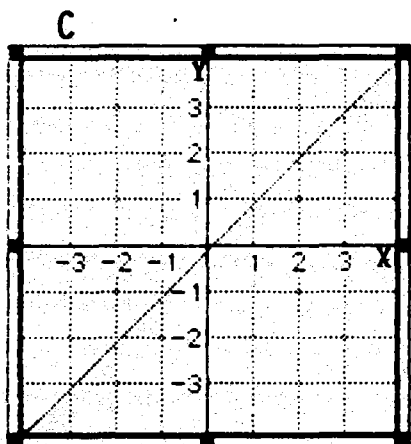
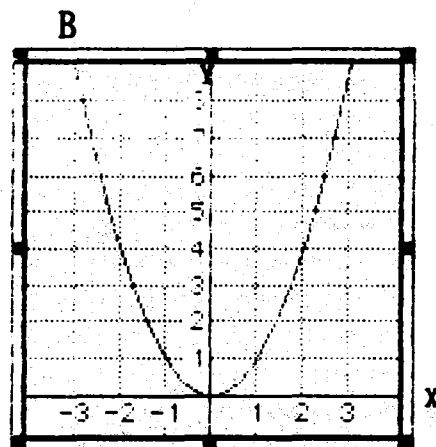
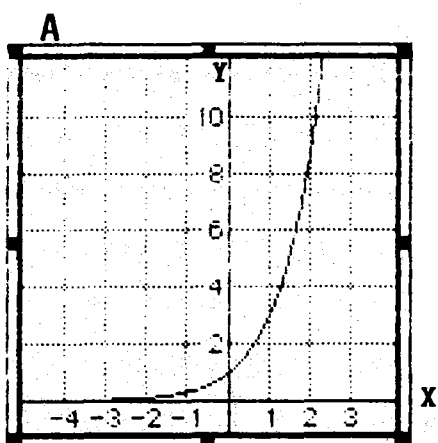
1. Haile Selassie
2. Joseph Mobutu

Answer: 1. Ethiopia, 2. Zaire, [accept: (the Belgian) Congo]

Handout 8-3



TIME-TABLE.



MATH 30. In terms of π , give the volume generated when the area bounded by the given curves and lines is rotated about the x axis: $x + y = 2$, $x = 0$, $y = 0$.

Answer: $\frac{8\pi}{3}$

For the next question you will receive Handout 8-4. Do not distribute these until you are instructed to do so. (pause) You may distribute these face up.

ENG 31. Match each of the four works to the costume on the handout which might normally have been worn by one of the characters in the work.

Works

1. A Connecticut Yankee in King Arthur's Court
2. The Great Gatsby
3. The Frogs
4. Pride and Prejudice

Answer: 1-D, 2-B, 3-A, 4-C

(Source: Encyclopedia of World Costume pp. 399, 426, 448, 416)

SCI 32. Determine the coefficient of kinetic friction if it requires 100 newtons of force to keep a box of 500 newtons moving at a constant velocity along a floor.

Answer: 0.2 (accept: 1/5)

$\frac{\text{Force}}{\text{mass}}$

(Source: Sears College Physics, p. 33)

ART 33. Match each of the four artists to his most common subject matter.

Artists

1. J.M.W. Turner
2. Willem Claez-Heda
3. Franz Hals
4. Jan Vermeer

Subject Matters

- A. genre scenes
- B. landscape
- C. still life
- D. portrait

Answer: 1-B, 2-C, 3-D, 4-A

SCI 34. Compute the number of moles of electrons or Faradays required per mole of nitrate ion in the half-cell reaction in which

NO_3^- (N, 0, 3 negative 1) is reduced to NH_4^+ (N, H, 4 positive 1).

Answer: 8

Handout 8-4

A.



B.



C.



D.



- SS 35.** Match each of the three Czar Ivans to the title by which each is known.

<u>Czar Ivans</u>		<u>Titles</u>
1. Ivan I	A.	the Great
2. Ivan III	B.	Kalita (moneybag)
3. Ivan IV	C.	the Terrible

Answer: 1-B, 2-A, 3-C

- ART 36.** Identify the nineteenth century artist who said the following:
"Dickens, whom I admire, does with words what I do with paint."

Answer: (Vincent) Van Gogh

- MATH 37.** Which one of the following four describes the piece function f of x equals x squared when $x < 3$ and $6x - 9$ when $x \geq 3$ at $x = 3$?

- A. continuous but not differentiable
- B. differentiable but not continuous
- C. neither continuous nor differentiable
- *D. both continuous and differentiable

- ENG 38.** Match each of the four figures of speech to the appropriate example.

<u>Figures of Speech</u>	<u>Examples</u>
1. apostrophe	A. "Death, be not proud, though some have called thee mighty and dreadful,..."
2. hyperbole	B. "...where the corn grows so tall they have to go up on a ladder to pick the ears off;..."
3. conceit	C. "To prepare a face to meet the faces that you meet;..."
4. synecdoche	D. "Our two souls...are two so as stiff twin compasses are two; Thy soul, the fixed foot..."

Answer: 1-A, 2-B, 3-D, 4-C

- SCI 39.** Place the following four people in chronological order according to their date of birth.

- A. Alexander Fleming
- B. Edward Jenner
- C. B. F. Crick
- D. Gregor Mendel

Answer: B, D, A, C

(Source: HBJ Biology pp. 836-37)

- SS 40. Match each of the four psychologists to the term or phenomenon with which each is most associated.

<u>Psychologists</u>		<u>Terms or Phenomena</u>	
1.	Sigmund Freud	A.	behaviorism
2.	Walter Cannon	B.	classical conditioning
3.	B. F. Skinner	C.	"fight or flight" response
4.	Ivan Pavlov	D.	dream analysis

Answer: 1-D, 2-C, 3-A, 4-B

End of 10-point round.

Begin 20-point team question.

Read: For this team question you will be given Handouts 8-5 and 8-5A.

Do not distribute the handouts until you are instructed to do so. This team question is worth 20 points. Each question is worth 1 point.

You will be given 4 minutes. Please identify one handout as your team answer sheet in the upper left-hand corner.

Begin.

Time 4 minutes.

STOP!

Identify one handout as your team answer sheet and hold it in the air. The judges will correct your work.

Handout 8-5

Team # _____

I SPY!

Use the hints found on Handout 8-5A to fill in the missing word and phrase in the following poem.

I saw a _____ with a fiery _____.
(1) (2)

I saw a blazing comet drop down _____.
(3)

I saw a _____ with ivy curled around.
(4)

I saw a sturdy _____ creep on the _____.
(5) (6)

I saw an _____ up a _____.
(7) (8) (9)

I saw a raging _____ brim full of _____.
(10) (11)

I saw a _____ glass sixteen foot deep.
(12)

I saw a well full of _____'s _____ that weep.
(13) (14)

I saw their _____ all in a flame of _____.
(15) (16)

I saw a house as high as the _____ and higher.
(17)

I saw the _____ at twelve o'clock at _____.
(18) (19)

I saw the _____ who saw this wondrous sight.
(20)

Handout 8-5A

Hints:

1. a screaming, brightly colored fowl known for its ostentatious tail
2. a caudal appendage
3. layered stone of ice that falls from the sky
4. cumulus accumulation
5. a tree of the genus Quercus with relatives whose first names are "Live", "Scrub", and "Water"
6. substrate
7. a social insect that can carry over ten times its weight and is known for moving the rubber tree
8. gulp down
9. a member of the genus Orca
10. a body of $\text{NaCl} + \text{H}_2\text{O}$
11. British ethanol beverage
12. from the Italian city of islands and canals
13. ♂ (plural form)
14. secretions of the lacrimal gland
15. organs connected to the brain by the optic nerve
16. visible sign of combustion
17. natural satellite of the earth
18. middle-aged yellow star
19. period of activity for nocturnal creatures
20. ♂ (singular form)

Read answers: (one point each)

1. peacock
2. tail
3. hail
4. cloud
5. oak
6. ground
7. ant
8. swallow
9. whale
10. sea

11. ale
12. Venetian
13. men
14. tears
15. eyes
16. fire
17. moon
18. sun
19. night
20. man

(Source: The Oxford Nursery Rhyme Book by Iona and Peter Opie, p. 141)

Announce scores from team question.

Two-minute break. (All coaches should report to scorekeepers whether substitutions are made or not.)

Announce scores after the round.

Begin 15-point question round.

ENG 41. Match each of the four novels to its closing lines.

- | | <u>Novels</u> |
|----|---------------------------------|
| 1. | <u>Cry, the Beloved Country</u> |
| 2. | <u>Lord of the Flies</u> |
| 3. | <u>1984</u> |
| 4. | <u>Heart of Darkness</u> |

- | | <u>Closing Lines</u> |
|----|--|
| A. | "He turned away to give them time to pull themselves together; and waited, allowing his eyes to rest on the trim cruiser in the distance." |
| B. | "...the final adoption of Newspeak had been fixed for so late a date as 2050." |
| C. | "...the tranquil waterway leading to the uttermost ends of the earth flowed sombre under an overcast sky." |
| D. | "But when that dawn will come, of our emancipation, from the fear of bondage and the bondage of fear, why, that is a secret." |

Answer: 1-D, 2-A, 3-B, 4-C

SS 42. Name each of the three bills described:

1. first ten amendments to the Constitution
2. can originate only in the House of Representatives
3. legislative act that inflicts punishment upon a particular person or group without a court trial; such punishment is forbidden by the U.S. Constitution

Answer: 1. Bill of Rights
2. revenue (money) bill
3. Bill of Attainder

(Source: Student Review Manual to Accompany The American Nation, Garraty and McCaughey, Harper and Row, 1987 p. 117)

MS 43. Who am I?

I was an infantryman in World War II.
I won a Purple Heart.
I studied at the Chicago Academy of Art.
> I contributed to the Army's newspaper, Stars and Stripes.
I won a Pulitzer Prize in 1945.
G.I. Joe > Willie and Joe became good friends of mine.
I was a cartoonist in World War II.

Answer: (Bill) Mauldin

MATH 44. In the closed interval from zero to π , name the x coordinates for the inflection points for the function y equals sine squared x minus cosine squared x .

Answer: $\frac{\pi}{4}$, $\frac{3\pi}{4}$ (either order)

SS 45. Which one of the following four did Andrew Johnson, Chester Arthur, and Theodore Roosevelt have in common?

- A. Each was a military hero.
- B. Each held a political office in New York.
- C. Each was a Republican Senator.
- *D. Each succeeded an assassinated President.

SCI 46. Express as a percent the maximum theoretical efficiency for a Carnot-style steam engine that produces steam at 227 degrees Celsius and exhausts its waste heat into the atmosphere when the temperature is 27 degrees Celsius.

Answer: 40

For the next question you will hear "Dear Abby" columns in French, Spanish and German (FL 8-6, no handout). You are to give your answer in English.

FL 47. What is the girl's problem?

Answer: She and her fiance do not agree on a honeymoon trip.

SS 48. Which one of the following four is not associated with Max Weber's aspects of authority?

- A. traditional authority
- *B. despot authority
- C. rational-legal authority
- D. charismatic authority

(Source: Sociology: Understanding Society, Prentice Hall, p. 171 and Understanding Sociology, p. 106)

MS 49. Which one or ones of the following four persons did not win a Nobel Prize?

- A. Milton Friedman
- *B. Pierre Curie
- C. Albert Camus
- *D. Jonas Salk

1903 he shared with Marie & Henri Becquerel

(Note: A. Economic Sciences 1976, C. Literature 1957)

(Source: The World Almanac 1990, pp. 343-345)

For the next question you will need this information.

A U-shaped tub is divided in the middle by a membrane that is impermeable to starch but permeable to water and iodine. A 15% starch solution is placed on the left side, and an equal amount of 2% iodine is placed on the right.

SCI 50. Which one of the following four statements best describes what will happen?

- A. Water and starch will flow to the right, iodine to the left.
- B. Starch will flow to the right, iodine and water to the left. Both sides will turn purple.
- *C. Water and iodine will flow to the left causing the water level to rise and the starch to turn purple.
- D. Starch and iodine will remain where they are, but water will flow left.

ENG 51. This is a two-part question.

Part 1: An Essay on the Principle of Population, written by _____ and published in 1801, pointed out the dangers of overpopulation.

Part 2: Name the modern novelist who used the author's name in describing a method of birth control.

Answer: Part 1: (Thomas) Malthus
Part 2: (Aldous) Huxley

MATH 52. What are the real roots of the equation x to the fourth power, minus five x cubed, plus eight x squared, minus ten x plus twelve equals zero, if eye times the square root of two is one root?

Answer: 2, 3 (either order)

MS 53. Match each of the four persons to his work.

<u>Persons</u>	<u>Works</u>
1. El Greco	A. <u>Eighth Book of Madrigals</u>
2. Monteverdi	B. <u>Twice-told Tales</u>
3. Hemingway	C. <u>The Opening of the Fifth Seal</u>
4. Hawthorne	D. <u>Fifth Column</u>

Answer: 1-C, 2-A, 3-D, 4-B

(Source: Timetables of History, pp. 273, 289, 514, 402)

SS 54. What do the numbers 2 + 4 mean when speaking of the German reunification talks?

Answer: 2 = Federal Republic of Germany (BRD), German Democratic Republic (DDR) (accept: West Germany, East Germany)
4 = 4 occupying nations (accept: United Kingdom, U.S., France, Soviet Union)

ENG 55. Match each of the four women writers to her work.

<u>Writers</u>	<u>Works</u>
1. Margaret Atwood	A. <u>Cold Sassy Tree</u>
2. Olive Ann Burns	B. <u>The Color Purple</u>
3. Alice Walker	C. <u>The Handmaid's Tale</u>
4. Jeanne Rhys	D. <u>Wide Sargasso Sea</u>

Answer: 1-C, 2-A, 3-B, 4-D

MUS 56. Name the four musical terms beginning with the letter "D" described in the following.

1. composition designed to be performed at funerals
2. the fifth degree of the major or minor scale, also, the chord built on this pitch
3. words, abbreviations and signs indicating volume levels
4. an Appalachian Mountain folk instrument

Answer: 1. dirge
2. dominant
3. dynamics or dynamic markings
4. dulcimer

For the next question you will use Handout 8-7. Do not distribute these until you are instructed to do so. (pause) You may distribute these face down.

HUM 57. The question is printed on the handout. Turn them over and begin.

Answer: Sartre, 2-C-Z; Voltaire, 3-A-X; Camus, 1-B-Y

Handout 8-7

Match each author to the appropriate work title, character(s) from that work, and the quotation from that work.

<u>Author</u>	<u>Title</u>	<u>Character(s)</u>	<u>Quotation</u>
Sartre	1. <u>The Plague</u>	A. Candide	X. "We must cultivate our own garden."
Voltaire	2. <u>No Exit</u>	B. Dr. Rieux	Y. "All one can do is simply do what one can for the cause of human life and hope for the possibility of human joy."
Camus	3. <u>ou l'Optimisme</u>	C. a man and 2 women	Z. "Hell is other people."

ENG 58. Each of the following selections was written by someone who committed suicide. Name any three of the following four authors.

1. "Invictus"
2. The Sun Also Rises
3. The Bell Jar
4. To the Lighthouse

(any three)

- Answer:
1. William Ernest Henley
 2. Ernest Hemingway
 3. Sylvia Plath
 4. Virginia Woolf

MATH 59. Match each of the three ordered triples to the coordinate system in which it is used.

<u>Ordered Triples</u>	<u>Coordinate Systems</u>
1. (X, Y, Z)	A. spherical
2. (R, THETA, Z)	B. rectangular
3. (RHO, THETA, PHI)	C. cylindrical

Answer: 1-B, 2-C, 3-A

MS 60. Listen to the following list of four events which are not in chronological order. Identify the person associated with each event. In your answer, give the names of these persons in the chronological order of the events with which each is associated.

- A. His technological invention did more to encourage Southern cotton production in the 1800s than any other.
- B. Federal troops were used to protect this black student attending the University of Mississippi.
- C. He used the battle of Antietam in connection with his famous document on slavery.
- D. This author's character, Simon Legree, fanned abolitionist flames.

Answer: (Eli) Whitney; (Harriet Beecher) Stowe; (Abraham) Lincoln; (James) Meredith

MATH 61. Give the equivalents for the decimal number 123 in each of the following three bases.

- A. base 2
- B. base 8
- C. base 16

Answer:

- A. 1111011
- B. 173
- C. 7B

SCI 62. Three-way matching. Match each of the four diseases to the agent of transmission and to the mode of transmission.

<u>Diseases</u>	<u>Agents of Transmission</u>	<u>Modes of Transmission</u>
1. botulism	A. virus	W. flea bite or lice
2. encephalitis	B. rickettsia	X. consuming contaminated food
3. hookworm	C. bacteria	Y. mosquito bite
4. typhus	D. nematode	Z. contact with contaminated soil

Answer: 1-C-X; 2-A-Y; 3-D-Z; 4-B-W

For the next question you will use Handout 8-8. Do not distribute these until you are instructed to do so. (pause) Distribute these face down.

COMP 63. Turn the handouts over and determine the exact output of the BASIC program.

Answer: The output = 2550

SCI 64. Determine the change in boiling point in degrees Celsius to three significant digits in a 0.5 molal solution of CaCl_2 if the same molality solution of NaCl boils at 1.5 degrees Celsius above the boiling point of the solvent.

Answer: 2.25

(Source: Brown and LeMay Chemistry p. 403)

ART 65. This is a two-part question.

Part 1: Name the sculptor who designed the tomb of Pope Julius II.

Part 2: Name the character who is portrayed as the central figure on this tomb.

Answer: Part 1: Michelangelo
Part 2: Moses

(Source: History of Art, Janson)

Handout 8-8

```
1  LET T = 0
2  FOR N = 2 TO 100 STEP 2
3  LET T = T + N
4  NEXT N
5  PRINT "THE OUTPUT = ";T
```

End of 15-point round.

Begin 30-point team question.

Read: For this team question you will be given Handouts 8-9 and 8-9A and three art handouts (8-9). You will listen to the recording of two musical selections (tape 8-9), and will be paid a visit by a special group from the underworld.

Do not distribute the handouts until you are instructed to do so. This team question is worth 30 points. Each question is worth one point.

You will be given 6 minutes. Please identify one handout as your team answer sheet in the upper left-hand corner.

Play tape.

Begin.

Time 6 minutes.

STOP!

Identify one handout as your team answer sheet and hold it in the air. The judges will correct your work.

Read answers: (one point each)

See answer sheet.

Announce scores from team question.

Teams should remain seated until final scores are computed.

Announce scores.

If scores are tied, have a two minute break before beginning the tie breaker question. Only the teams whose scores are tied will compete.

Tie-Breaker Questions.