

# 1906-7 GST CATALOG

Georgia School of Technology.

## Discipline and Dormitory Regulations.

The students of the School have a record for good conduct unsurpassed by any corps in the country.

They are required to obey but few regulations, the authorities bearing in mind the development and best interest of the student-body.

Every man is expected to conduct himself in a gentlemanly manner. When he fails in this and convinces the authorities that he has not come to work, his parents are requested to withdraw him.

Special Textile students and students having but few lessons to prepare will not be admitted to the dormitories.

Patrons or prospective patrons will be furnished upon application with the printed Rules and Regulations of the School.

## Specimen Examinations for Entrance.

**Apprentice Class and Special Textile Course, Pages 83 and 97.**

**FALL ENTRANCE--Arithmetic.**

1. How many acres in 1 mile of road 3 rods wide?
2. Change  $\frac{6}{11\frac{1}{2}}$  to a fraction whose denominator is 46.
3. A. is 1760 yards behind B. and they are going in the same direction. If A.'s rate is to B.'s as  $1\frac{1}{2} : \frac{3}{4}$ , how far must each travel before A. overtakes B.?
4. From 5.062 take  $2.1\frac{1}{4}$  and express the result in a common fraction in hundredths.
5. A cubical cistern holds 1331 cubic yards; how deep is it?
6. Two cogged wheels, of which one has 16 and the other 17 cogs, work in each other. If the latter turns 80 times in  $\frac{3}{4}$  of a minute, how often does the former turn in 8 seconds?

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**FALL ENTRANCE--U. S. History.**

- I. (a) Tell when and how America was discovered.  
(b) Who was De Soto? La Salle? Sir Walter Raleigh? John Rolfe?
- II. What was the cause and result of King William's War? Queen Anne's War? King George's War? The French and Indian War?
- III. Describe two of the principal battles of the Civil War.
- IV. Name three prominent statesmen of the Confederacy and tell what you can of their public career.
- V. (a) What generals of the Civil War became presidents?  
(b) What was the Fugitive Slave Law? The Missouri Compromise?
- VI. (a) Tell the time and occasion of Lincoln's assassination.  
(b) Why was President Johnson impeached?
- VII. (a) What are the three branches of the present government?  
(b) Who succeeds the President in case of death?
- VIII. (a) Name several important inventions of the 19th Century.  
(b) What is the present population of the country?

**Topics Suggested for Theme-Writing.**

1. Captain John Smith's career in America.
2. Puritan Colonial Customs.
3. The first Iron-Clads.
4. The rapid settlement of the West.
5. The South's view of Secession.
6. Inventors who have done most for the country.

**FALL**

1. The diagonals of a square are perpendicular to each other. Prove this by showing that the diagonals bisect each other at right angles.
2. OC is a line from the center O of a circle to a point C on the circumference. A chord AF is drawn perpendicular to OC at D. Prove that  $\frac{OC}{OD} = \frac{OA}{OD}$ .
3. To construct a square equivalent to a given rectangle, describe a circle with diameter equal to the sum of the sides of the rectangle. A tangent to the circle at the point where the diameter meets the circumference is drawn. A perpendicular is dropped from the center of the circle to this tangent. The length of this perpendicular is the side of the square.
4. Describe a circle tangent to a given line and passing through a given point.
5. The bisector of an angle bisects the opposite side of a triangle in the ratio of the adjacent sides.
6. The square of the hypotenuse of a right-angled triangle is equal to the sum of the squares of the other two sides.
7. On a given line segment, construct a square and a rectangle having the same area.

**FALL**

1. Get cube root of  $8x^{-3}$ . Write answer with radical sign.
2. (a) Simplify  $\frac{x^2}{x^3}$ .  
(b) Combine  $\frac{1}{2} + \frac{1}{3}$ .
3. Factor (a)  $12x^2 - 3x$ .  
(b)  $64a^6 - 8a^3$ .
4. Factor (a)  $x^8 - x^4$ .  
(b)  $a^3 - a$ .
5. Simplify  $\left\{ \left( \frac{x^{-4}}{y^{\frac{1}{2}}} \right)^{\frac{1}{3}} \right\}$ .
6. Solve  $\frac{2a^2}{\sqrt[3]{x}} = a\sqrt{x}$ .

Freshman Class.

FALL ENTRANCE--Geometry.

1. The diagonals of a regular pentagon form by their intersection a second regular pentagon.
2. OC is a line drawn from the center of a circle to any point of the chord AB. Prove  

$$\overline{OC}^2 = \overline{OA}^2 - AC \cdot CB.$$
3. To construct a polygon similar to two given similar polygons and equivalent to their sum.
4. Describe a circle passing through two given points and tangent to a given line.
5. The bisector of the exterior angle of a triangle divides the opposite side how? Prove.
6. The square of the side opposite an obtuse angle of a triangle is equal to what? Prove.
7. On a given line to construct a segment of a circle that shall contain a given angle.

FALL ENTRANCE--Algebra.

1. Get cube root of  $8x^3 - 12x^2 + 3x - 25 + 30x^{\frac{1}{2}} + 12x^{-2} + 8x^{-3}$

Write answer with + exponents.

2. (a) Simplify  $\frac{3+2\sqrt{-1}}{2-5\sqrt{-1}} + \frac{3-2\sqrt{-1}}{2+5\sqrt{-1}}$   
 (b) Combine  $\frac{1}{2}\sqrt{\frac{3}{4}} + \frac{1}{2}\sqrt{\frac{1}{3}} - \frac{1}{2}\sqrt{\frac{3}{5}}$
3. Factor (a)  $12x^2 - 11xy + 2y^2$   
 (b)  $64a^6 - 729b^{12}$
4. Factor (a)  $x^8 - 47x^4y^4 + y^8$   
 (b)  $a^3 - b^3 + a^4 + a^2b^2 + b^4$
5. Simplify  $\left\{ \left( \frac{x^{-4}}{y^{\frac{1}{3}}} \right)^{-3} \div c \frac{\sqrt{x^{-1/3}}}{x^{\frac{2}{3}}c^2y^{-3}} \right\}^6$
6. Solve  $\frac{2a^2}{\sqrt[3]{x}} = a\sqrt{x} + \sqrt[3]{x^4}$

U. S. History.

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7. For a certain time and rate \$1,000 amounts to \$1,060 at simple interest. Find the time and rate if the principal is doubled by decreasing the rate 11 per cent. and increasing the time 19 years.

8. Two trains, 100 feet long and 80 feet long, running at uniform rates on parallel tracks, are seen to pass each other in 2 seconds when running in opposite directions, and in 7 seconds when running in the same direction. Get velocity in feet per second of each train.

**Freshman Class.**

**FALL ENTRANCE--English.**

(English Grammar.)

I. Name and define the Parts of Speech. What parts of speech are inflected, and what name is given to the inflexion in each instance?

II. Into what classes are nouns divided? Mention four ways of forming the plural of nouns. Three ways of distinguishing their gender by their form. Inflex *duke, Norman, son-in-law, woman-servant*.

III. Name with examples five classes of pronouns. Inflect the personal pronouns and *who*. How do the relatives differ in use?

IV. Give five noun constructions requiring the nominative case; five requiring the objective case. Parse the nouns and pronouns in: But me no buts. He waited a year; then declared himself the murderer. The day being foggy, the hill seen through the mist seemed a mountain.

V. Parse the adjectives in:

"And his droop'd head sinks gradually low,  
And through his side the last drops, ebbing slow  
From the red gash, fall heavy, one by one,  
Like the first of a thunder shower."

VI. What do adverbs modify? Write an illustration of

each use. Inflect *w* the two general class

VII. Define the Auxiliary Verb, Imperative mode of *s*

VIII. What are participles and infinitives possible for us to succeed often do nothing but future, remembering

IX. What is a parts of speech may *was fought* as a noun

X. How are sentences structure; according "Sweet are the Which like thou Wears yet a

1. How is Cæsar's p
2. Mention the difference is in danger.
3. Relate the incident
4. Describe the fight defeated leaders.

MACA

1. Give some account
2. What else beside and what success

each use. Inflect *well, ill, much, heavy*. Name with examples the two general classes of conjunctions.

VII. Define the terms: Transitive Verb, Intransitive Verb, Auxiliary Verb, Impersonal Verb, Passive Voice. Write the indicative mode of *shake*; the subjunctive of *be*.

VIII. What are participles and infinitives? Parse the participles and infinitives in: "Desiring to succeed makes it possible for us to succeed, though the noblest desire to work can often do nothing but wait; still, fearing nothing let us face the future, remembering that to dare will be to do—God willing."

IX. What is a phrase, a clause, a sentence? As what parts of speech may a phrase be used? Use *where the battle was fought* as a noun, as an adjective, as an adverb.

X. How are sentences classified, according to form, or structure; according to use? Define each class. Analyze:

"Sweet are the uses of adversity,  
Which like the toad, ugly and venomous,  
Wears yet a precious jewel in his head."

### Freshman Class.

#### FALL ENTRANCE.

(English Classics.)

##### JULIUS CAESAR.

1. How is Cæsar's popularity shown in the first scene?
2. Mention the different warnings given Cæsar that his life is in danger.
3. Relate the incidents of the assassination.
4. Describe the fight at Philippi, and tell of the fate of the defeated leaders.

##### MACAULAY'S ESSAY ON ADDISON.

1. Give some account of the early life of Addison.
2. What else besides literature occupied his maturer years, and what success did he attain in its pursuit?

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3. What are his best literary works?
4. Write a character-sketch of Addison, and give an account of his last days.

MACAULAY'S LIFE OF SAMUEL JOHNSON.

1. About what time did Johnson live, and who were some of his contemporaries?
2. Sketch his life through his school days.
3. Name some of his most prominent characteristics as a man.
4. Name his three best works.

CONCILIATION WITH AMERICA.

1. Why does Burke think that force should not be used against America?
2. What three possible methods of dealing with America are mentioned, and which does he urge?
3. Give briefly three of the strongest arguments for conciliation.

LYCIDAS.

1. Relate the circumstances that led to the writing of the poem.
2. Why, in beginning, address *laurels, myrtles, and ivy*?
3. Explain the italicised words:  
"I come to pluck your berries *harsh and crude,*  
And with *forced fingers rude*  
Shatter your leaves *before the mellowing year.*"
4. In what connection does the author mention the English clergy, and what does he say about them?
5. Explain the italicised words:  
(a) "For we were nursed upon the selfsame hill, etc."  
(b) "To sport with *Amaryllis* in the shade,  
Or with the tangles of *Neaera's* hair."  
(c) *The Pilot of the Galilean Lake.*

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