

Educational (1895) Department.

ORDINARY MS.

G.O., No. 708

Dated 21st Aug 1895.

INDEXED.

[Despatch Abstract.]

GOVERNMENT TECHNICAL EXAMINATION

Approving the draft revised Syllabus in Hygiene for the Inter-
mediate Grade of the -- .

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

Ed. Co. 1,708-25-2-44.

1895?

Educational Department.

Current No. 948

From

The Director of Public Instruction,

Madras,

To

The Honorable the Chief Secretary
to Government,

Fort St. George.



Dated

Despatched

Received

7th
8th
9th

August 1895

No.

Enclosure. *Copy of
Draft Syllabus*

Subject.

Submitting for approval,
copies of the draft revised
Syllabus in Hygiene for the
Intermediate Grade of the
Government Technical
Education.

19/4/94. 10/12/94

~~948-26-12-52-82-82~~

822 27/1/93

452 25/1/93

752 13-10-93

21 Aug 1895

No. 708

Order

Approved.

12/8/95

To

The Hon. Secy. to Govt.
... for Govt. Secy. to Govt.

Note.

The Syllabus in Hygiene
for the Intermediate Examination
was revised with reference to the
papers read in E.O. No. 185 Dec.
94 no 19 14 94.

Madras, 7th August 1895.

No. 8426

From

The Honorable Mr. D. DUNCAN, M.A., D.Sc.,

Director of Public Instruction,

Madras,

To

The Honorable The Chief Secretary to Government,

Fort St. George.

Sir,

I have the honour to submit,
for the approval of Government, six copies of
the draft revised Syllabus of the Government
Technical Examination in Hygiene of the
Intermediate grade.

2. The syllabus has been revised by the Sanitary
Commissioner so as also to suit the require-
ments of Candidates qualifying for the post of
Sanitary Inspector. It was referred to the
Surgeon-General and the Professor of Hygiene,
Madras Medical College, as suggested in
para

*Government of Madras Technical
Examinations.*

HYGIENE.

ELEMENTARY EXAMINATION.

1. *Anatomical and physiological preliminaries.*—The structure (as visible to the naked eye) and function of—

The heart; the lungs; the skin; the digestive tract; the kidneys and bladder. The work of respiration, circulation and nutrition. Secretion and excretion; removal of waste matter from the body.

2. *The skin and its treatment.*—Importance of functions of skin; need of cleanliness; methods of cleaning, action and value of soap-baths, hot and cold, and their effects; regulation of bodily temperature.

3. *Air and respiration.*—Composition of air; impurities of air; deleterious gases; principles of ventilation; importance of fresh air.

4. *Water and beverages.*—Different kinds of water; sources of water; good drinking water; wells and their dangers; tea and coffee, their preparation and effects.

5. *Food.*—Classification and uses of food substances.

6. *Exercise.*—Sleep and rest; formation and influence of habits.

The examination shall comprise—

A written examination.

One paper of two hours' duration.

The total marks and the minima required for passing shall be as follows:—

	Max.	Min. for passing	
		1st class	2nd class
Written examination	100	40	30

Textbook recommended.—Dr. Thomson Page's *Elements of Hygienic Sanitation* and *Hygiene*.

The student is required to prepare a written report on the subject of the written examination, and to submit it to the authorities for their consideration.

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INTERMEDIATE EXAMINATION.

1. *Local conditions: soil, climate and meteorology.*—General characters of soils and sub-soils; the choice of sites for buildings; aspect; elevation; moist and inland climates; influence of surroundings, such as swamps, various kinds of vegetation, &c.; winds; rainfall; humidity; temperature; diseases connected with the soil.

2. *Water.*—Sources; composition, characters and classification of potable waters; origin of impurities in drinking water; conservancy; purification; prevention of pollution of tanks and wells; diseases caused by impure supply.

3. *Air.*—Composition; impurities, their sources and effects; simple methods of testing the principal impurities; action of animals and plants on the air; cubic space necessary for each person; dangers of overcrowding; natural and artificial ventilation.

4. *Waste and impurities.*—Disposal of excreta, sewage and refuse; the principles of construction of latrines on the dry and on the wet system; temporary latrines; cess-pools; dung-hills; control of offensive trades and disposal of their refuse; the principles of house and street drainage; open and closed drains; the disposal of dead bodies; the regulation of burial and burning grounds; diseases specially connected with filth.

5. *Personal hygiene.*—Habits; exercises; principles of physical training; effects of a sedentary life; sleep and sleeping places; cleanliness; washing; attention to the skin and the bowels; the principal parasites of man and methods for their removal; clothing materials, their properties and suitability to different conditions of temperature and climate; effects of early marriage; effects of various excesses and intemperance; effects of tobacco and opium on the health.

6. *Food and diet.*—Physiology, classification and uses of food substances; quantity of each class required; energy obtainable from food; animal and vegetable foods; general principles and requirements of a diet; the preparation and

cooking of food; hours for meals; effects of excess and deficiency of food; condiments, alcohol, tea, coffee, and aerated waters as articles of diet; wholesome and unwholesomeness of food; adulteration; the principal adulterations of milk and its products, and simple methods for their detection; foods in common use in the Madras Presidency and among the different castes and classes of the population; diseases specially associated with food.

7. *Disease*.—Contagion; the media in which contagia are spread; epidemic and endemic disease; the germ theory and its application to sanitary work; rabies, anthrax, glanders, cholera, small-pox, measles, epidemic typhus (foot-and-mouth disease); the principles of preventive inoculation; general preventive measures; the notification of infectious diseases; action of antiseptics, disinfectants and deodorants; the effect of heat as a disinfectant; preventive measures applicable to the cure of large gatherings, such as fairs and festivals.

8. *Vital statistics*.—Population; census; registration of births and deaths; rates; means.

9. *Method of inspection and reporting upon the sanitary condition of rural and urban areas, dwellings, slaughter-houses, places for the deposit of offensive and dangerous trades, graveyards, rubbish and night-soil deposits, sewage farms, cattle-yards, dairies, stables*; physical examination of grain, bread, milk, and its products, meat, fish, vegetables and fruits; the use of apparatus designed for the contact of night-soil and rubbish conservancy, water-supply and sewerage of towns; disinfection of dwellings and of clothing; the organisation and practical working of a staff organised for dealing with an epidemic disease.

10. *Sanitary law*.—A knowledge of the sanitary clauses of the various Acts in force in the Madras Presidency, sufficient to enable the candidates to decide promptly as to what action can be legally taken or initiated by them.

The examination shall comprise—

(1) A written examination on the above.

Two papers each of three hours' duration.

(2) An oral examination.

Candidates will be required to show a general knowledge of the organisation and the objects of administration of District Boards and Municipalities, and the relation of those bodies to the various departments of Government.

(3) A practical examination—

By means of a written report,* and an oral examination thereon.

The distribution of marks and the minima required for passing shall be as follows:—

	Max.	Min. for passing	
		1st class	2nd class
Written examination	50	—	—
Oral and practical examination	40	20	15
Total	100	40	30

Books recommended:—

H. Kelly's Elements of Sanitary Science.

King's Manual of Hygiene (revised edition).

The following may also be consulted:—

Madras Municipalities Act IV of 1884. Madras Local Boards Act V of 1884. Madras Act II of 1886. Madras Act I of 1884, amended by Madras Act II of 1885. Penal Code, chap. 24.

Table for Medical Inspection and Quarantine of Shipping.

Annual Reports of the Sanitary Commissions for Madras.

Report on the Madras Census of 1871, by W. E. Corfield.

Report on the Madras Census of 1881, vol. I, portions of Nos 100 pages; and vol. II, pp. 3, 46 and 47.

2248

Enclosed
to J. J. G. 1/5 letter,
J. J. G. 1/5
7-8-95

Encl 1 to col. cno.
948/95

na 2 of the former officers letter no 575, -
dated, 6th November 1894 read in G.O. dated
1st December 1894, No 1914 M, L & M. and has
met with their approval.

The Syllabus in Hygiene for the Elementary
grade which has been reprinted along with
the revised Syllabus for the Intermediate
grade, has not undergone any change.

I have the honour to be,

Sir,

Your most obedient servant,

J. B. B. B.

Director of Public Instruction

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When signed _____

189

Examined G.O. No. _____
189

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