removed. 5. How is formaldehyd prepared? In what forms is it used as a disinfectant? 6. What is the composition of butter? Describe a good method of determining the volatile fatty acids in a sample. How does this assist you in deciding the question of adulterations? 7. What are the respective alcoholic strengths of beer, claret, sherry, gin, whisky 7 8. Name the solids contained in normal blood. What proportions do the solids bear to the water in the blood? 9. Give the composition of starch, cane-sugar, grape-sucar and sucar of milk. Calculate the number of grains of carbon present in 1,000 grains of starch and cane-sugar, respectively. 10. What is soone? Is there any real evidence of its presence in the atmospheric air? What other substances give similar actions? thas its presence or absence any sanitary importance? 11. How would you recognize each of the following gases, chemically, when mixed with air: Carbon monoxid, sulphur dioxid, sulphuretted bydregen and hydrochloric acid? 12. How would you detect the presence of tartaric acid in lemon or line juice?

### PHYSIOLOGY

# [Answer ten questions only]

[Answer ten questions only] 1. Describe the phenomenon of muscular tone. 2. What is the chemical theory of fatigue? 3. What is the difference in the paraly-sis from injury to the spinal and the pyramidal neurons, respec-tively? 4. Name four sensory qualities of cutaneous nerves and tell how they are distributed in the skin. 5. What is the function of the Eustachian tube? 6. What normal conditions produce a vari-ation in the number of red-blood corpuscies? 7. Mention four factors concert 44 in producing normal pressure and velocity of the blood. 8. What physical changes take place in respired air? 9. What conditions affect the action of ptynlin? 10. What is the general physiologic importance of bile? 11. What is the physio-logic rôle of the adrenais? 12. Mention four ways by which the body loset its heat. BACTEBIOLOGY

## BACTERIOLOGY

# [Answer ten questions only]

[Answer ten questions oniy] 1. Expisin ilow diphtheria antitoxin is made. 2. Give two meth-ods of producing immunity (active). 3. What is a bacterial vaccine? How does it act? 4. Give positive tests distinguishing gonococci from other cocci. 5. Describe in detail a method of staining tubercle backfill. 6. Name five pust-producing organisms. 7. Explain how pus is produced by germs. 8. Give two methods by which Bacillus typhonus may be distinguished from Bacillus coli communis. 5. Show by drawing appearance under the microscope of the fol-lowing: Spirocheta pallida, Bacillus diphtheriar, Bacillus perti-bacillus transi. Amg bu coli. 10. Describe cause and usual method of entry of epidemic cerebrospinal meningitis. 11. What is meant by Widal's reaction? Describe two methods of doing it. 12. De-scribe the different methods by which bacteria propagate. Give three.

## OBSTETRICS

# [Answer ten questions only]

[Answer ten questions only] 1. Between what points are the four measurements taken in external pelvimetry? 2. How is the pelvic inlet bounded? 3. What are the anomalies calling for cephalic version? 4. In manuary abscesses what is the usual source of infection and how can it be prevented? 5. Give the etology and diagnosis of phlegmasin alba dolens in the puerperal state. 6. In breach presentations, occiput anterior, in what position would you place the body of the child in the application of forceps to the after-coming head? 7. Howeribe hypermensis and its dangers. 8. Give the symptoms and diagnosis of puerperal septicemin? 9. What are the causes of secondary petperatum hemorrhage? 10. Describe the "Braxton-Hicks" method of manipulation in placenta previa. 11. What are the causes and is dangers. its dangers.

#### GYNECOLOGY

## [Answer ten questions only]

[Answer ten questions only] 1. What is the menopause? Its physiologic establishment? What are the especial dangers of this period? 2. What are the causes of bemorthage of the non-pregnant uterus, other than menstruation? 3. Diagnosis of uterine fibroids. What pathological change often takes place? Prognosis. 4. Acute pelvic perionitis, causes and symptoms. 5. What is the differential diagnosis between ascites and orarian cyst? 6. What is amenorrhea, its causes and dangers? 7. What are the symptoms and management of imperforate hymen, with prolonged retention of secretion? 8. What is chronic endo-metrilis, etiology and symptoms? 9. Early diagnosis of cancer of the uterus. What are operable causes? At what period in a woman's life is it most liable to occur? 10. Urethral caruacke, diagnosis, and symptoms. 11. Hematoma of the vulva, symptoms and diagnosis. 12. Specific vaginitis, symptoms.

### GENERAL DIAGNOSIS

**GENERAL DIAGNOSIS** 1. Give the causes of enlargement of the liver and describe strophic cirrbosis of the liver in derail. 2. Differentiate tetanus from hydrophobla. 3. Name the different varieties of casts found in the urine and what is the significance of each. 4. Give the symptoms of multiple scierosis. 5. Give the symptoms and signs on which you would diagnose a typhoid intextinal perforation. 6. Differentiate varied from varietils. 7. Describe an attack of acute appendicitis. 8. Describe an attack of acute pericarditis. 9. Give the causes and physical signs of ascites. 10. Differentiate initia from glaucoma. 11. Give the relations of the abdominal sorta; diagnose a fracture through the neck of the femur. 12. hearthe the symptomatic development of a severe hemorrhage which presses on the upper one-half of the fissure of kiolando fol-lowing a blow on the head. HYGIENE

### HYGIENE

### [Answer ten questions only]

J. What deleterious gases accumulate in improperly ventilated rooms? 2. What diseases may be propagated by drinking water? How may the impurities in water be detected? 3. Name four meth-ofs used in communities for the disposal of sewage and describe one method. 4. Outline a rational method by which the condi-tion of mik supplied to a community might be materially improved.

## Pennsylvania December Reports

The Medical Council of Pennsylvania reports the written examinations held at Philadelphia and Harrisburg, Dec. 14-17, 1910. The number of subjects examined in was 7; percentage required to pass, 75.

At the examination held by the State Medical Society of Pennsylvania, at Philadelphia, the total number of candidates examined was 95, of whom 79 passed and 16 failed. The following colleges were represented:

	PASSED	Year	Total No.
College		Grad.	Examined.
University of Colorado	•••••••••••••••••••••••••••••••••••••••	(1909)	1
Howard University, W:	ashington, D. C., (1907)	(1909)	$\dot{2}$
Georgetown University		(1910)	3
Attanta School of Medi	cine	(1910)	ĭ
Indiana i niversity		(1010)	1
Kentucky University		(1996)	ī
University of Louisville	•••••••••••••••••••••••••••••••••••••••	(1910)	1 L
Johns Hopkins Univers	ity	(1909)	
Baltimore Medical Colle	ge	(1910)	4
University of Marylan	d(1909) (6,	1910)	7
Conege of Physicians a	nd Surgeons, Baltimore	(1910)	4
Support Conege of Medi	cine	(1910)	1
Albann Medical Collors	· · · · · · · · · · · · · · · · · · ·	(1910)	1
Columbia University (		(1905)	1 .
Suggoone	ollege of Physicians and	(1000)	•
Tomple University		(1909)	3
Jefferson Medical C	ollege (1902) (1906)	(1910)	4
(9 1000)	(1502) (1500)	1010	10
University of Pittsburg	(1909) (3,	10100	13
University of Pennsy	vivania (1895) (1907)	1910)	-1
$(2, 1908) \cdot (1909)$	(1300) (1500) (1500)	1910)	10
Medico-Chirurgical Coll	. Philadelphia (1909) (	1010	
Woman's Medical Co	bilege of Pennsylvania	, 1010	7
(2, 1909)	······································	1910)	4
University of Vermont.	***********************	(1910)	1
McGill University, Mon	treal	(1907)	î
University of Toronto.	Ontario	(1909)	$\hat{2}$
Queen's University, Kin	gston, Ontario	(1910)	ĩ
•	<b>o</b> ,	(=====)	•
a. 11	FAILED	Year	Per
College		Grad	
Howard University, Wa	shington, D. C	(1907	) 70.2
University of Louisville		11010	5 72.7
Maryland Medical Colleg	ze (1910) 23.7. 63.3. 64.5	70.4	
Baltimore Medical Colle	ege	. (1910	) 65,5
Thiversity of Maryland		11010	
University Medical Colic	ege, Kansas City	11963	1
Leonard Medical School		(1900	
Medico-Chirurgical Colle 72.6.	ege, Philadelphia (1909)	73.9; (	1910) 61,
University of Pittsburg.		(1910	) 72.5
University of Pennsylva	inia	(1910)	
Mebarry Medical Colleg-	e	(1910)	68.5
# Expelled from anot			0.0

Expelled from examination,

I

At the examination held by the Homeopathic Medical Society at Philadelphia, the total number of candidates examined was 5, of whom 4 passed and 1 failed. The following colleges were represented:

Hahnemann Medical C	PASSED c. Medical College ollege and Hospital, Phiła 	Grad. . (1910) -	Total No. Examined. 1 3
College Hahnemann Medical C	FAILED oilege and Hospital, Chica	Year Grad go. (1909	Per Cent, ) 61.4

At the examination held by the Eclectic Medical Society at Harrisburg, the total number of candidates examined was 12, of whom 11 passed and 1 failed. The following colleges were represented:

Baltimore Universi Eclectic Medical U St. Louis College o Medico-Chirurgical	PASSED College(1907) (3, ollege ity inversity, Kansas City of Physicians and Surgeons College, Philadelphia	Grad. <u>1</u> 1910) (1908) (1905) (1910) (1910)	Total No. Examined 1 1 1 1 2
College	FAILED	Year	Per Cent.
Baltim <del>or</del> e Universi	bigitized by	(1908) Ogl(	72.1