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A SYSTEM APPROACH TO NAVY MEDICAL EDUCATION AND TRAINING, APPEN--ETC (11)

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APPENDIX 20.
OPHTHALMOLOGY TECHNICIAN

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APPENDIX 20.

OPHTHALMOLOGY TECHNICIAN

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A SYSTEM APPROACH
NAVY MEDICAL
EDUCATION AND TRAINING
FINAL REPORT

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Prepared under Contract to
OFFICE OF NAVAL RESEARCH
U.S. DEPARTMENT OF THE NAVY

Quida C. Upchurch, Capt., NC, USN
Program Manager
Education and Training R&D
Bureau of Medicine and Surgery (Code 71G)

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) The study objective consisted of a determination of what the health care personnel in the Navy's Medical Department, Bureau of Medicine and Surgery actually do in their occupations; improving the personnel process (education and training); and building a viable career pathway for all health care personnel. Clearly the first task was to develop a system of job analyses applicable to all system wide health care manpower tasks. A means of postulating simplified occupational clusters covering some 50		

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FOREWORD

The project, "Application of a System Approach to the Navy Medical Department Education and Training Programs," was initiated in May of 1969 as a realistic, comprehensive response to certain objectives set forth in ADO 43-03X, and to memoranda from both the Secretary of Defense and the Assistant Secretary of Defense, Manpower and Reserve Affairs. The Secretary's concern was stated in his memorandum of 29 June 1965, "Innovation in Defense Training and Education." More specific concerns were stated in the Assistant Secretary's memorandum of 14 June 1968, "Application of a System Approach in the Development and Management of Training Courses." In this he called for "vigorous and imaginative effort," and an approach "characterized by an organized training program with precise goals and defined operational interrelation among instructional system components." He also noted, "Job analyses with task descriptions expressed in behavioristic terms are basic and essential to the development of precise training goals and learning objectives."

The Project

System survey and analysis was conducted relative to all factors affecting education and training programs. Subsequently, a job-analysis sub-system was defined and developed incorporating a series of task inventories ". . . expressed in behavioristic terms . . ." These inventories enabled the gathering of job activity data from enlisted job incumbents, and data relating to task sharing and delegation from officers of the Medical, Nurse and Dental Corps. A data management sub-system was devised to process incumbent data, then carry out needed analyses. The development of initial competency curricula based upon job analysis was implemented to a level of methodology determination. These methods and curriculum materials constituted a third (instructional) sub-system.

Thus, as originally proposed, a system capability has been developed in fulfillment of expressed needs. The system, however, remains untested and unevaluated. ADO 43-03X called for feasibility test and cost-effectiveness determination. The project was designed to so comply. Test and evaluation through the process of implementation has not proved feasible in the Navy Medical Department within the duration of the project. As designed and developed the system does have ". . . precise goals and defined operational interrelation among instructional system components." The latter has been achieved in terms of a recommended career structure affording productive, rewarding manpower utilization which bridges manpower training and health care delivery functions.

Data Management Sub-System

Job analysis, involving the application of comprehensive task inventories to thousands of job incumbents, generates many millions of discrete bits of response data. They can be processed and manipulated only by high speed computer capability using rigorously designed specialty programs. In addition to numerical data base handling, there is the problem of rapidly and accurately manipulating a task statement data base exceeding ten thousand carefully phrased behavioral statements. Through the use of special programs, task inventories are prepared, printouts for special purposes are created following a job analysis application, access and retrieval of both data and tasks are efficiently and accurately carried out, and special data analyses conducted. The collective programs, techniques and procedures comprising this sub-system are referred to as the Navy Occupational Data Analysis Language (NODAL).

Job Analysis Sub-System

Some twenty task inventory booklets (and associated) response booklets) were the instruments used to obtain job incumbent response data for more than fifty occupations. An inventory booklet contains instructions, formatted questions concerning respondent information ("bio-data"), response dimension definitions, and a list of tasks which may vary in number from a few hundred to more than a thousand per occupational field.

By applying NODAL and its associated indexing techniques, it is possible to assemble modified or completely different inventories than those used in this research. Present inventories were applied about three years ago. While they have been rendered in operational format, they should not be reapplied until their task content is updated.

Response booklets were designed in OPSCAN mode for ease of recording and processing responses.

Overall job analysis objectives and a plan of administration were established prior to inventory preparation, including the setting of provisional sample target sizes. Since overall data attrition was forecast to approximate twenty percent, final sample and sub-sample sizes were adjusted accordingly. Stratified random sampling techniques were used. Variables selected (such as rating, NEC, environment) determined stratifications, together with sub-population sizes. About fifteen percent of large sub-populations were sought while a majority of all members of small sub-populations were sought.

Administration procedures were established with great care for every step of the data collecting process, and were coordinated with sampling and data analysis plans. Once set, the procedures were formalized as a protocol and followed rigorously.

Instructional Sub-System

Partial "competency curricula" have been composed as an integral sub-system bridging what is required as performance on the job with what is, accordingly, necessary instruction in the training process. Further, curriculum materials were developed to meet essential requirements for implementing the system so that the system could be tested and evaluated for cost effectiveness. However, due to the fact that test and evaluation was not feasible in the Navy Medical Department within the duration of the project, it was not possible to complete the development of the system through the test and evaluation phase. The inability to complete this phase also interrupted the planned process for fully developing the curricula; therefore, instead of completed curricula ready for use in the system, the curricula were partially developed to establish the necessary sub-system methodology. The competency curricula are based on tasks currently performed by job incumbents in 1971. (The currency of a given curriculum depends upon periodic analysis of incumbents' jobs, and its quality control resides in the evaluation of the performance competency of the program's graduates.)

A competency curriculum provides a planned course of instruction or training program made up of sequenced competency units which are, in turn, comprised of sequenced modules. These modules, emphasizing performance objectives, are the foundation of the curriculum.

A complete module would be comprised of seven parts: a cluster of related tasks; a performance objective; a list of knowledges and skills implied by the objective; a list of instructional strategies for presenting the knowledges and skills to the learner; an inventory of training aids for supporting the instructional strategies; a list of examination modes; and a statement of the required training time. In this project, curriculum materials have been developed to various levels of adequacy, and usually comprise only the first three parts; the latter four need to be prepared by the user.

The performance objective, which is the most crucial part of the module, is the basis for determining curriculum content. It is composed of five essential elements: the stimulus which initiates the behavior; the behavior; the conditions under which the behavior takes place; the criteria for evaluating the behavior; and the consequence or results of the behavior. A sixth element, namely next action, is not essential; however, it is intended to provide linkage for the next behavior.

Knowledges and skills listed in the module are those needed by the learner for meeting the requirements of the performance objective.

Instructional strategies, training aids, examination modes and training time have been specified only for the Basic Hospital Corps Curriculum. The strategies, aids and modes were selected on the basis of those considered to be most supportive in presenting the knowledges and skills so as to provide optimum learning effectiveness and training efficiency. The strategies extend from the classroom lecture as traditionally presented by a teacher to the more sophisticated mediated program for self-instruction. The training aids, like strategies, extend from the traditional references and handout material in the form of a student syllabus to mediated programs for self-instruction supported by anatomical models. Examination modes extend from the traditional paper and pencil tests to proficiency evaluation of program graduates on the job, commonly known as feedback. Feedback is essential for determining learning effectiveness and for quality control of a training program. The kind of instructional strategies, training aids and examination modes utilized for training are limited only by such factors as staff capability and training budget.

The training time specified in the Basic Hospital Corps Curriculum is estimated, based upon essential knowledge and skills and program sequence.

The competency curriculum module, when complete, provides all of the requirements for training a learner to perform the tasks set forth in the module. A module may be used independently or related modules may be re-sequenced into modified competency units to provide training for a specific job segment.

Since the curricula are based upon tasks performed by job incumbents in 1971, current analysis of jobs needs to be accomplished using task inventories that have been updated to reflect changes in performed tasks. Subsequent to job analysis, a revision of the curricula should be accomplished to reflect task changes. When the foregoing are accomplished, then faculty and other staff members may be indoctrinated to the competency curricula and to their relationship to the education and training system.

In addition to the primary use for the systematic training of job incumbents, these curricula may be used to plan for new training programs, develop new curricula, and revise existing curricula; develop or modify performance standards; develop or modify proficiency examinations; define billets; credentialize training programs; counsel on careers; select students; and identify and select faculty.

The System

Three sub-systems, as described, comprise the proposed system for Education and Training Programs in the Navy Medical Department. This exploratory and advanced developmental research has established an overall methodology for improved education and training incorporating every possible means of providing bases for demonstrating feasibility and cost effectiveness. There remains only job analysis sub-system up-dating, instructional sub-system completion, and full system test and evaluation.

Acknowledgements

The authors wish to acknowledge the invaluable participation of the several thousands of Naval personnel who served as respondents in inventory application. The many military and civilian personnel who contributed to developmental efforts are cited by name in the Final Report.

The authors also wish to acknowledge former colleagues for singularly important contributions, namely, Elias H. Porter, Ph.D., Carole K. Kauffman, R.N., M.P.H., Mary Kay Munday, B.S.N., R.N., Gail Zarren, M.S.W., and Renee Schick, B.A.

Identity and acknowledgement of the project Advisory Group during the project's final year is recorded in the Final Report.

Lastly, the project could not have been commenced nor carried out without the vision, guidance and outstanding direction of Ouida C. Upchurch, Capt., NC, USN, Project Manager.

NAVY MEDICAL DEPARTMENT

TASK INVENTORY BOOKLET

OPHTHALMOLOGY

(HOSPITAL CORPS)

CONSTRAINTS AND ETHICAL USE

This task inventory was developed three years ago in a first-version key punch format for education and training research purposes.

The present "operational" format, using a mark-sense response booklet (Opscan), is recommended for future applications. The task and equipment statements comprising the bulk of the inventory are precisely the same (less duplicate entries) as in the original research tools but rearranged for Opscan mode. Biographical data questions have also been reformatted for Opscan (NEC codes should be updated).

The processing, administering and formatting of this inventory have thus been readied for operational application.

It is strongly recommended that this inventory be updated in its task and equipment statement sections before actual operational use. These reasons pertain:

- Changes in medical or related procedures or techniques
- Some tasks may violate current policy or be obsolete
- Equipment changes may have occurred
- The objective of task comprehensiveness may change
- Objectives may shift to embrace manpower utilization as well as education and training

In the latter regard, the present operational format includes a "time to perform" dimension (as well as frequency of performance and two additional optional blank response dimension fields). As a response dimension, "time to perform" has been validated within the context of inventories for professional personnel where the objectives embraced utilization (i.e., time associated with shared and delegable tasks). The original Enlisted inventory content was directed to education and training factors only. If "time to perform" is to be used operationally, each task and equipment statement should be examined by expert job incumbents to remove possible overlaps which could confound "time to perform" data. This review process would also serve other purposes cited above.

A general precaution is in order.

When task analysis inventories are poorly prepared, loosely administered, administered according to less than rigorous sampling, or are handled casually in processing or interpretation, they will inevitably produce poor or questionable data, at best. At worst, such practices will result in loss of money and time, and produce dangerous data. Inventories should be prepared, applied, processed and interpreted only by knowledgeable professional and technical personnel. As in the cases of ethically controlled behavior tests, inventories should not be casually copied or distributed, and should remain under the control of authorized, trained personnel. Factors effecting reliability and validity should be fully appreciated.

GENERAL INSTRUCTIONS

There are two parts to be completed for this survey:

- Part I Career Background Information
 (answers to be recorded in this
 TASK BOOKLET)

- Part II A List of Tasks (answers to be
 recorded on the accompanying
 RESPONSE BOOKLET)

- B List of Instruments and
 Equipment (answers to be
 recorded on the accompanying
 RESPONSE BOOKLET)

Each part is preceded by a set of instructions. Be sure to read them carefully before you start answering each part. All instructions are found on the tinted pages.

PLEASE USE ONLY NUMBER 2 LEAD PENCILS. ERASE ALL CHANGES CAREFULLY AND COMPLETELY. DO NOT PUT ANY MARKS OTHER THAN YOUR ANSWERS ON EACH RESPONSE PAGE.

DO NOT FOLD, WRINKLE, CREASE OR DETACH PAGES FROM EITHER TASK BOOKLET OR RESPONSE BOOKLET.

WHEN RECORDING YOUR ANSWERS YOU MAY WANT TO USE A RULER TO READ ACROSS ANSWER AND QUESTION COLUMNS.

WHEN YOU HAVE COMPLETED YOUR RESPONSES, PUT THE TASK INVENTORY BOOKLET AND THE RESPONSE BOOKLET IN THE ENCLOSED SELF-ADDRESSED ENVELOPE. SEAL AND RETURN TO THE OFFICER WHO GAVE YOU THIS PACKAGE. COMPLETED BOOKLETS SHOULD BE RETURNED WITHIN ONE WEEK OF RECEIPT.

Part I

CAREER BACKGROUND INFORMATION

Check that the Form and Serial Number in this box match those on the cover of this Booklet

Please fill out completely

Name of your Duty Station _____

City & State (if applicable) _____

Your Name _____

Social Security Number _____

DO NOT FILL IN

N
Form Serial No.

(1)

(7)

(14)

PLEASE ANSWER QUESTIONS BELOW BY ENTERING THE PROPER NUMBER IN THE BLANKS PROVIDED. TWO BLANKS REQUIRE A TWO-DIGIT ANSWER. DISREGARD NUMBERS IN PARENTHESIS.

ENTER ANSWERS HERE

Q1. Select the number to indicate the Corps to which you belong:

1. Dental Technician
2. Hospital Corps

Q1. ____ (23)

Q2. Indicate your military status:

1. USN
2. USNR

Q2. ____ (24)

Q3. Indicate your pay grade:

- | | |
|-------|-------|
| 1. E1 | 6. E6 |
| 2. E2 | 7. E7 |
| 3. E3 | 8. E8 |
| 4. E4 | 9. E9 |
| 5. E5 | |

Q3. ____ (25)

Q4. Indicate your total years of active duty in the Navy to date: (estimate to the nearest year)

1. Less than 2 years
2. 2 to 4 years
3. 5 to 8 years
4. More than 8 years

Q4. ____ (26)

ENTER
ANSWERS
HERE

- Q5. Select the number to indicate your present immediate supervisor:
- 1. Physician
 - 2. Dentist
 - 3. Nurse
 - 4. MSC Officer
 - 5. HM or DT
 - 6. Other (Specify) _____
- Q6. Select the number to indicate the average number of hours you work per week: (estimate to the nearest hour)
- 1. 35 to 40 hours
 - 2. 41 to 50 hours
 - 3. More than 50 hours
- Q7. Please give an estimate of the percent of time you spend on the following (write five percent as 05):
- 1. Inpatient care
 - 2. Outpatient care
 - 3. Teaching
 - 4. Administration
 - 5. Other (specify) _____
- Q8. Assuming that most or all of the following factors are of importance to you, select the three which, if improved, would contribute most to your job satisfaction:
- 01 Salary and/or promotion opportunities
 - 02 Retirement benefits
 - 03 Housing
 - 04 Educational advancement opportunities
 - 05 Stability of tour of duty
 - 06 Physical facilities and equipment
 - 07 Administrative and clerical support
 - 08 Work load
 - 09 Personal career planning
 - 10 Opportunity to attend professional meetings

Q5. ___ (27)

Q6. ___ (28)

Q7.

1. ___ % (29)
2. ___ % (31)
3. ___ % (33)
4. ___ % (35)
5. ___ % (37)

Q8. ___ (39)

___ (41)

___ (43)

ENTER
ANSWERS
HERE

- Q9. Using the list on page vii specify your current NEC by writing the last two digits of the CODE. Q9. ___ (45)
- Q10. Select the number to indicate your years of experience corresponding to the NEC stated in Q9: (estimate to the nearest year) Q10. ___ (47)
1. Less than 1 year 4. 6 to 10 years
2. 1 to 2 years 5. 11 to 15 years
3. 3 to 5 years 6. More than 15 years
- Q11. If you have other NEC(s) in addition to the one specified in Q9, check page vii and indicate the last two digits of the CODE(s). If you have none, enter "99" in answer space for Q11 and Q12. Q11a. ___ (48)
b. ___ (50)
- Q12. Select the number to indicate the years of experience you had in the NEC(s) stated in Q11 (estimate to the nearest year). Q12a. ___ (52)
b. ___ (53)
1. Less than 1 year 4. 6 to 10 years
2. 1 to 2 years 5. 11 to 15 years
3. 3 to 5 years 6. More than 15 years
- Q13. From the list below, write the two-digit CODE to indicate the specialty of the department in which you are currently functioning. Q13. ___ (54)

CODE

01 Administration	18 Urology
02 Education	19 Intensive Care
03 Anesthesiology	20 Operating Room
04 Coronary Care	21 Emergency Room
05 Dermatology	00 Other (specify)
06 Medicine - OPD	
07 Medicine - Wards	
08 Obstetrics/Gynecology	
09 Ophthalmology	
10 Orthopedics	
11 Otolaryngology	
12 Medical Laboratory	
13 Pediatrics	
14 Psychiatry	
15 Public Health	
16 Radiology	
17 General Surgery-Wards	

ENTER
ANSWER
HERE

Q14. Select the number to indicate the type of duty station at which you currently work, and have been working for at least 30 days:

Q14.____ (56)

1. Hospital
2. Dispensary
3. Aboard ship/sub, no M.O. (or D.O.) aboard
4. Aboard ship/sub, M.O. (or D.O.) aboard
5. Aviation squadron/wing, Navy or Marine
6. Marine ground forces
7. Administrative Commands
8. Research Commands or PMUs
9. Dental Clinic
0. Other _____

Q15. Indicate the number of people you normally supervise:

Q15.____ (57)

- | | |
|---------|------------|
| 0. None | 3. 6-10 |
| 1. 1-2 | 4. 11-20 |
| 2. 3-5 | 5. over 20 |

MEDICAL/DENTAL NEC (NAVAL ENLISTED CODE) AND TITLE

0900 General Service, Hospital or Dental Corpsman
3371 Health Physics & Process Control Technician
3391 Nuclear Power Plant Operator
8402 Nuclear Submarine Medicine Technician
8403 Submarine Medicine Technician
8404 Medical Field Service Technician
8405 Advanced Hospital Corps Technician (Class B)
8406 Aviation Medicine Technician
8407 Nuclear Medicine Technician
8408 Cardiopulmonary Technician
8409 Aviation Physiology Technician
8412 Clinical Laboratory Assistant Technician
8413 Tissue Culture Technician
8414 Clinical Chemistry Technician
8415 Medical Technology Technician
8416 Radioactive Isotope Technician
8417 Clinical Laboratory Technician
8432 Preventive Medicine Technician
8433 Tissue Culture and Tissue Bank Technician
8442 Medical Administrative Technician
8452 X-ray Technician
8453 Electrocardiograph/Basal Metabolism Technician
8454 Electroencephalograph Technician
8462 Optician (General) Technician
8463 Optician Technician
8466 Physical and Occupational Technician
8472 Medical Photography Technician
8482 Pharmacy Technician
8483 Operating Room Technician
8484 Eye, Ear, Nose, & Throat Technician
8485 Neuropsychiatry Technician
8486 Urological Technician
8487 Occupational Therapy Technician
8488 Orthopedic Appliance Mechanic
8489 Orthopedic Cast Room Technician
8492 Special Operations Technician
8493 Medical Deep Sea Diving Technician
8494 Physical Therapy Technician
8495 Dermatology Technician
8496 Embalming Technician
8497 Medical Illustration Technician
8498 Medical Equipment Repair Technician
8703 DT General, Advanced
8707 DT Field Service
8713 DT Clinical Laboratory
8714 DT Research Assistant
8722 DT Administrative
8732 DT Repair
8752 DT Prosthetic, Basic
8753 DT Prosthetic, Advanced
8765 DT Maxillofacial Prosthetic

RESPONSE BOOKLET INSTRUCTIONS

- To complete Part II, you need this TASK BOOKLET and the accompanying RESPONSE BOOKLET. Record all your answers to Part II in the RESPONSE BOOKLET.
- All pages of the RESPONSE BOOKLET are machine readable. In order for responses to be properly read, please be sure to:
 1. Use a No. 2 pencil only
 2. Carefully and completely shade the number corresponding to your answer under each column.
- Complete Page 00 of the RESPONSE BOOKLET first. Follow instructions given on the page. Fill in Line 1, and Boxes 2, 3, 4, and 5. Ignore all other boxes. BE SURE TO ENTER YOUR SOCIAL SECURITY NUMBER (WRITE DOWNWARD) IN THE BLANK SPACES IN BOX 3: then darkly shade the corresponding number on each line. An example of a completed Page 00 is shown on the next page (the handwritten notes in this example are for clarification only. Please do not make similar notes on your RESPONSE BOOKLET.)
- After completing Page 00, carefully read and follow instructions given on pages x through xiv.
- PLEASE HANDLE YOUR RESPONSE BOOKLET CAREFULLY. KEEP IT CLEAN AND AWAY FROM CHEMICALS. DO NOT DETACH, FOLD, WRINKLE OR CROSS OUT ANY PAGE.

DO NOT MARK IN THESE BOXES	0 1 2 3 4 5 6 7 8 9	0 1 2 3 4 5 6 7 8 9	0 1 2 3 4 5 6 7 8 9	0 1 2 3 4 5 6 7 8 9
	0 1 2 3 4 5 6 7 8 9	0 1 2 3 4 5 6 7 8 9	0 1 2 3 4 5 6 7 8 9	0 1 2 3 4 5 6 7 8 9
	RESPONSE BOOKLET			
	Serial No. 0233			

(Ignore these notes)

Your name is
1 NAME Mary Smith

INSTRUCTIONS

1. Use No. 2 pencil ONLY.
2. Indicate responses with solid black mark in space provided.
3. Erase COMPLETELY all changes.
4. Do not detach forms from packet.
5. Answer questions 2 through 5 below.
6. See Task Statement Booklet for further instructions for completing boxes to the right.

Today is June 4, 1972
June = 06
4 = 04
1972 = 72

2	TODAY'S DATE	MONTH	0 1 2 3 4 5 6 7 8 9
		DAY	0 1 2 3 4 5 6 7 8 9
		YEAR	0 1 2 3 4 5 6 7 8 9
		YEAR	0 1 2 3 4 5 6 7 8 9

SOCIAL SECURITY NUMBER	3	0 1 2 3 4 5 6 7 8 9
	0	0 1 2 3 4 5 6 7 8 9
	4	0 1 2 3 4 5 6 7 8 9
	2	0 1 2 3 4 5 6 7 8 9
	6	0 1 2 3 4 5 6 7 8 9
	9	0 1 2 3 4 5 6 7 8 9
	7	0 1 2 3 4 5 6 7 8 9
	5	0 1 2 3 4 5 6 7 8 9
	1	0 1 2 3 4 5 6 7 8 9

TASK ANALYSIS BACKGROUND DATA SHEET

TASK ANALYSIS BACKGROUND DATA SHEET	6	0 1 2 3 4 5 6 7 8 9	13 0 1
		0 1 2 3 4 5 6 7 8 9	14 0 1
		0 1 2 3 4 5 6 7 8 9	15 0 1
		0 1 2 3 4 5 6 7 8 9	16 0 1
	7	0 1 2 3 4 5 6 7 8 9	17 0 1
		0 1 2 3 4 5 6 7 8 9	18 0 1
		0 1 2 3 4 5 6 7 8 9	19 0 1
		0 1 2 3 4 5 6 7 8 9	20 0 1
	8	0 1 2 3 4 5 6 7 8 9	21 0 1
		0 1 2 3 4 5 6 7 8 9	22 0 1
		0 1 2 3 4 5 6 7 8 9	23 0 1
		0 1 2 3 4 5 6 7 8 9	24 0 1
9	0 1 2 3 4 5 6 7 8 9	25 0 1	
	0 1 2 3 4 5 6 7 8 9	26 0 1	
	0 1 2 3 4 5 6 7 8 9	27 0 1	
	0 1 2 3 4 5 6 7 8 9	28 0 1	
10	0 1 2 3 4 5 6 7 8 9	29 0 1	
	0 1 2 3 4 5 6 7 8 9	30 0 1	
11	0 1 2 3 4 5 6 7 8 9	31 0 1	
	0 1 2 3 4 5 6 7 8 9	32 0 1	
12	0 1 2 3 4 5 6 7 8 9	33 0 1	
	0 1 2 3 4 5 6 7 8 9	34 0 1	

SEE COVER OF YOUR TASK BOOKLET Form N20, Ser. No. 0233

4	TASK BOOKLET	FORM	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
			0 1 2 3 4 5 6 7 8 9
			0 1 2 3 4 5 6 7 8 9
		SERIAL NO.	0 1 2 3 4 5 6 7 8 9
			0 1 2 3 4 5 6 7 8 9

*My Birth Date is 7/24/10, 1940
MOY = 05 1940 = 40*

b	DATE BIRTH	MONTH	0 1 2 3 4 5 6 7 8 9
		DAY	0 1 2 3 4 5 6 7 8 9
		YEAR	0 1 2 3 4 5 6 7 8 9
		YEAR	0 1 2 3 4 5 6 7 8 9

& Ignore these notes

PART II

PART II A LIST OF TASKS

PART II B LIST OF INSTRUMENTS AND EQUIPMENT

HOW TO RESPOND TO TASK STATEMENTS AND INSTRUMENTS

Your responses to each statement should be marked on the corresponding page, column and item number in your RESPONSE BOOKLET.

Note that each page in your RESPONSE BOOKLET has two response blocks. The left-hand block (items 1-25) is for entering responses to statements printed on LEFT pages of this TASK BOOKLET; the right-hand block (items 26-50) is for the responses to statements printed on RIGHT pages. Make sure that your answers are recorded in the appropriate block on every page. DO NOT MAKE ANY MARKS OTHER THAN YOUR ANSWERS!

Each time you start a new page in your RESPONSE BOOKLET, check the page on your TASK BOOKLET. See that the numbers match; then mark the page number in "Box X" in the response page (see instructions at the top of response page.) This is necessary for computer processing.

Tear the Response Guide (p. xiii) at the perforation, and use the correct side to respond to each task or instrument found on the following white pages. Note the following detailed explanation of responses.

Column A - (the responses to Column A differ for Part II A and Part II B, be sure to use the appropriate set of responses.)

Part II A

How often did you do this task within the last month?
(If you were on leave, consider your immediate past working month.)

- 0 = Did not do
- 1 = Did less than 5 times
- 2 = Did 5 to 20 times
- 3 = Did 21 to 50 times
- 4 = Did 51 to 100 times
- 5 = Did more than 100 times

Part II B

How often did you use this instrument or piece of equipment within the last month? (If you were on leave, consider your immediate past working month.)

- 0 = Did not use
- 1 = Used less than 5 times
- 2 = Used 5-20 times
- 3 = Used 21-50 times
- 4 = Used 51-100 times
- 5 = Used more than 100 times

If answer in Column A is 0, go to the next statement. If answer is 1, 2, 3, 4 or 5, answer also Columns B, C & D.

Column B

Indicate the approximate time you spent on a single performance the last time you performed this task.

0 = less than one minute

1 = 1 to 4 minutes

2 = 5 to 10 minutes

3 = 11 to 20 minutes

4 = 21 to 30 minutes

5 = 31 to 60 minutes

6 = 1 to 2 hours

7 = more than 2 hours

Column C

Do you feel you need additional training to perform this task?

0 = No

1 = Yes

Column A - (the responses to Column A differ for Part II A and Part II B, be sure to use the appropriate set of responses.)

Part II A

How often did you do this task within the last month?
(If you were on leave, consider your immediate past working month.)

- 0 = Did not do
- 1 = Did less than 5 times
- 2 = Did 5 to 20 times
- 3 = Did 21 to 50 times
- 4 = Did 51 to 100 times
- 5 = Did more than 100 times

Part II B

How often did you use this instrument or piece of equipment within the last month? (If you were on leave, consider your immediate past working month.)

- 0 = Did not use
- 1 = Used less than 5 times
- 2 = Used 5-20 times
- 3 = Used 21-50 times
- 4 = Used 51-100 times
- 5 = Used more than 100 times

If answer in Column A is 0, go to the next statement. If answer is 1, 2, 3, 4 or 5, answer also Columns B, C & D.

Column B

Indicate the approximate time you spent on a single performance the last time you performed this task.

0 = less than one minute

1 = 1 to 4 minutes

2 = 5 to 10 minutes

3 = 11 to 20 minutes

4 = 21 to 30 minutes

5 = 31 to 60 minutes

6 = 1 to 2 hours

7 = more than 2 hours

Column C

Do you feel you need additional training to perform this task?

0 = No

1 = Yes

RESPONSE GUIDE

(DO NOT LOSE THIS TAB)

HOW TO RESPOND TO PART IIA - LIST OF TASKS

xiii

ANSWER COL. A FIRST. IF A = 0, GO TO NEXT STATEMENT: IF A = 1-5, ANSWER COLUMNS B, C & D ALSO.

A

B

C

D

FREQUENCY

TIME CONSUMED
(single performance
the last time
performed)

DO YOU FEEL YOU
NEED ADDITIONAL
TRAINING TO PER-
FORM THIS TASK?

OPTION

(Additional instructions
will be given if this
column is used)

0=DID NOT DO LAST MONTH
1=DID LESS THAN 5 TIMES
2=DID 5 TO 20 TIMES
3=DID 21 TO 50 TIMES
4=DID 51 TO 100 TIMES
5=DID MORE THAN 100 TIMES

0=LESS THAN 1 MINUTE
1=1 TO 4 MINUTES
2=5 TO 10 MINUTES
3=11 TO 20 MINUTES
4=21 TO 30 MINUTES
5=31 TO 60 MINUTES
6=1 TO 2 HOURS
7=MORE THAN 2 HOURS

0=NO
1=YES

RESPONSE GUIDE

(DO NOT LOSE THIS TAB)

HOW TO RESPOND TO PART IIB - LIST OF INSTRUMENTS AND EQUIPMENT

ANSWER COL. A FIRST. IF A = 0, GO TO NEXT STATEMENT: IF A = 1-5, ANSWER COLUMNS B, C & D ALSO.

A	B	C	D
FREQUENCY	TIME CONSUMED (last time used)	DO YOU FEEL YOU NEED ADDITIONAL TRAINING TO PER- FORM THIS TASK?	OPTION (Additional instructions will be given if this column is used)
0=DID NOT USE LAST MONTH	0=LESS THAN 1 MINUTE	0=NO	
1=USED LESS THAN 5 TIMES	1=1 TO 4 MINUTES	1=YES	
2=USED 5 TO 20 TIMES	2=5 TO 10 MINUTES		
3=USED 21 TO 50 TIMES	3=11 TO 20 MINUTES		
4=USED 51 TO 100 TIMES	4=21 TO 30 MINUTES		
5=USED MORE THAN 100 TIMES	5=31 TO 60 MINUTES		
	6=1 TO 2 HOURS		
	7=MORE THAN 2 HOURS		

Part II A
LIST OF TASKS

TASK NO.	ENTER RESPONSES TO STATEMENTS BELOW IN LEFT SIDE OF PAGE 01 OF RESPONSE BOOKLET
1	RECEIVE PATIENTS ON ARRIVAL, I.E. INTRODUCE SELF, OBTAIN PATIENT'S NAME
2	EXPLAIN SCHEDULES TO PATIENTS/FAMILIES, I.E., TIME TO AND FROM O.P., APPOINTMENTS
3	INSTRUCT OR HELP PATIENT/FAMILY FILL OUT FORMS
4	VERIFY IDENTIFICATION OF PATIENT, E.G. FOR TREATMENT, MEDICATIONS, EXAMINATION
5	REMOVE/SECURE/RETURN PATIENTS PERSONAL EFFECTS
6	OBTAIN PRELIMINARY MEDICAL HISTORY, I.E. PAST/PRESENT COMPLAINTS, ALLERGIES, MEDICATIONS
7	OBTAIN PATIENT'S SOCIAL AND FAMILY HISTORY
8	ASSIST PATIENTS IN/OUT OF BED, EXAM OR O.R. TABLES
9	ACCOMPANY PATIENT TO OTHER DEPARTMENTS/CLINICS
10	TRANSPORT NON AMBULATORY PATIENT TO OTHER DEPARTMENTS/CLINICS
11	LOAD/UNLOAD PATIENTS FROM STRETCHERS (GURNEY)
12	POSITION/HOLD PATIENT FOR EXAMINATION, TREATMENT, SURGERY
13	MOVE/POSITION COMATOSE/ANESTHETIZED PATIENT
14	STIMULATE/AROUSE PATIENT AFTER ANESTHESIA
15	MOVE/POSITION PATIENT WITH HEAD INJURIES
16	DRAPE/GOWN PATIENT FOR EXAMINATION/TREATMENT
17	DRAPE/UNDRAPE PATIENT FOR SURGERY
18	CLEAN AND CLOTHE PATIENTS AFTER SURGERY/TREATMENT/EXAMINATION
19	REASSURE/CALM PATIENT BEFORE SURGERY
20	REASSURE/CALM APPREHENSIVE (ANXIOUS) PATIENT
21	REASSURE APPREHENSIVE PARENTS OF PEDIATRIC PATIENT
22	REASSURE/CALM CHILDREN FOR EXAMINATION OR TREATMENT
23	RESTRAIN/CONTROL CHILDREN FOR EXAMINATION/TREATMENT/TEST
24	TEACH PATIENT MEDICATION STORAGE REQUIREMENTS, E.G. REFRIGERATION, EXPIRATION DATE
25	INFORM PATIENT/FAMILY OF SYMPTOMS OF INTOLERANCE/OVERDOSE TO MEDICATION, E.G. BLEEDING GUMS, COMA

RIGHT PAGE 01 DPHTH (HOSP CORPS) TASK BOOKLET

TASK NO.	ENTER RESPONSES TO STATEMENTS BELOW IN RIGHT SIDE OF PAGE 01 OF RESPONSE BOOKLET
26	EXPLAIN/ANSWER PATIENT/FAMILY QUESTIONS ABOUT MEDICATIONS, E.G. PURPOSE, DOSE, SCHEDULE
27	ANSWER PATIENT INQUIRIES REGARDING NONPRESCRIPTION DRUGS
28	EXPLAIN/ANSWER QUESTIONS ABOUT TREATMENT PROCEDURE VIA TELEPHONE
29	INFORM PATIENT OF PROCEDURES REQUIRED PRIOR TO/DURING EXAMINATION/TEST/TREATMENT
30	EXPLAIN/ANSWER PATIENT'S QUESTIONS REGARDING EXAMINATION/TEST/TREATMENT PROCEDURES
31	TEACH PATIENT SELF-ADMINISTRATION OF MEDICATIONS (OTHER THAN INJECTIONS)
32	TEACH PATIENT/FAMILY NURSING CARE PROCEDURES, E.G. DRESSING CHANGE, CAST CARE
33	EXPLAIN/ANSWER QUESTIONS ABOUT DOCTOR'S INSTRUCTIONS TO PATIENT/FAMILY
34	EXPLAIN/ANSWER PATIENT'S QUESTIONS REGARDING SYMPTOMS/DISEASE/TREATMENT
35	REINFORCE PATIENT'S POSITIVE RESPONSE TO THERAPY
36	ELICIT INFORMATION TO ASCERTAIN PATIENT'S UNDERSTANDING/ACCEPTANCE OF ILLNESS/TREATMENT
37	ASK PATIENT/CHECK CHART FOR CONTRAINDICATION FOR TREATMENT, PROCEDURE, TEST
38	REVIEW WITH PATIENT PRINTED INSTRUCTIONS FOR EXAMINATION/THERAPY PROCEDURES
39	EXPLAIN MINOR SURGICAL PROCEDURE/OPERATION TO PATIENT/FAMILY
40	EXPLAIN MAJOR SURGICAL PROCEDURE/OPERATION TO PATIENT/FAMILY
41	INSTRUCT PATIENT ON CARE AND USE OF CONTACT LENSES
42	EXPLAIN X-RAY PROCEDURES TO PATIENT
43	TAKE BLOOD PRESSURE
44	CHECK RADIAL (WRIST) PULSE
45	CHECK PATIENTS TEMPERATURE
46	CHECK/COUNT RESPIRATIONS
47	CHECK PATIENT FOR PROSTHESIS, E.G. EYE/TEETH/EXTREMITY
48	OBSERVE/REPORT SYMPTOMS OF SIDE EFFECTS TO TREATMENT/MEDICATION
49	EVALUATE PATIENT'S COMPLAINTS OR SYMPTOMS OF PAIN
50	SCREEN PATIENT VIA TELEPHONE TO DETERMINE NEED FOR MEDICAL ATTENTION

TURN PAGE

TASK NO.	ENTER RESPONSES TO STATEMENTS BELOW IN LEFT SIDE OF PAGE 02 OF RESPONSE BOOKLET
1	SCREEN PATIENT ON ARRIVAL TO DETERMINE WHICH STAFF MEMBER PATIENT SHOULD SEE
2	CHECK PUPIL REACTION TO LIGHT
3	DILATE PUPILS
4	PALPATE EYE FOR INTRAOCULAR TENSION
5	OBSERVE/RECORD OR DESCRIBE CHARACTERISTICS OF DRAINAGE FROM EYES/EARS
6	OBSERVE FOR REPORT OR DESCRIBE VISUAL DISTURBANCES, E.G. BLURRED, DOUBLE, MIRROR, TUNNEL
7	DO VISUAL ACUITY TEST USING SNELLEN CHART
8	DO VISUAL ACUITY TEST USING AFVT MACHINE
9	DO TONOGRAPHY
10	GRAPH TONOMETRY RESULTS AND CALCULATE INTRAOCULAR PRESSURE
11	DO COLOR VISION TEST
12	DO CENTRAL FIELD VISION TEST
13	DO PERIPHERAL FIELD VISION TEST
14	TEST FIELD OF VISION WITHOUT INSTRUMENT
15	DO SCHIOTZ TONOMETRY
16	DO APPLANATION TONOMETRIES
17	DO DEPTH PERCEPTION TEST
18	DO PRELIMINARY REFRACTIVE TESTS
19	DO MANIFEST REFRACTIONS
20	DO RED LENS TEST
21	MEASURE POINT OF CONVERGENCE USING PRINCE RULE
22	MEASURE PUPILLARY DISTANCE
23	TEST FOR OCULAR MUSCLE BALANCE (HETEROPHORIAS) BY INSTRUMENTATION
24	TEST FOR RIGHT AND LEFT HYPERPHORIA
25	OBSERVE CARDINAL DIRECTION OF GAZE FOR OCULAR MUSCLE IMBALANCE

RIGHT PAGE 02 OPHTH (HOSP CORPS) TASK BOOKLET

TASK NO.	ENTER RESPONSES TO STATEMENTS BELOW IN RIGHT SIDE OF PAGE 02 OF RESPONSE BOOKLET
26	OBSERVE FOR OCULAR MUSCLE IMBALANCE USING COVER OR RED GLASS (MADDOX ROD)
27	TEST PRISM CONVERGENCE/DIVERGENCE
28	TEST ACCOMODATION (VISUAL)
29	TEST FOR DIPLOPIA
30	HOLD FOCAL OBJECT FOR STRABISMUS EXAMINATION
31	DO SLIT LAMP EXAMINATION FOR FOREIGN BODIES
32	DO SLIT LAMP EXAMINATION FOR CORNEAL ABERRATIONS
33	DO ANISEIKONIA TEST
34	TAKE ELECTRORETINOGRAMS (ERG)
35	MAKE PRELIMINARY DIAGNOSIS OF CONJUNCTIVITIS
36	MAKE PRELIMINARY DIAGNOSIS OF IRITIS
37	OBSERVE FOR/DESCRIBE HEARING DISTURBANCES, E.G. RINGING, HEARING LOSS
38	OBSERVE/RECORD OR DESCRIBE CHARACTERISTICS OF SPITUM, MUCUS
39	EXAMINE FOR VIRAL INFECTIONS OF THE SKIN, E.G. WARTS
40	POINT OUT POSSIBLE ABNORMALITIES ON X-RAY FILM TO DOCTOR
41	ORDER NARCOTICS AND CONTROLLED DRUGS FROM THE PHARMACY
42	ORDER STOCK MEDICATIONS FROM PHARMACY
43	ORDER DRUGS LISTED IN FEDERAL SUPPLY CATALOGUE
44	MAKE LOCAL OPEN PURCHASES OF PHARMACEUTICALS
45	POUR/DRAW UP NARCOTICS AND CONTROLLED DRUGS
46	POUR/DRAW UP MEDICATIONS OTHER THAN NARCOTICS AND CONTROLLED DRUGS
47	MAKE ENTRIES INTO CONTROLLED DRUG/ALCOHOL LOG
48	ANSWER PERSONNEL INQUIRIES REGARDING MIXING/ADMINISTERING DRUGS
49	ANSWER INQUIRIES REGARDING DRUG REACTION
50	DISPOSE OF MEDICATIONS PREPARED BUT NOT ADMINISTERED

TURN PAGE

TASK NO. | ENTER RESPONSES TO STATEMENTS BELOW IN LEFT SIDE OF PAGE 03
| OF RESPONSE BOOKLET

- 1 | DISPOSE OF/RETURN MEDICATIONS/DRUGS WHOSE SHELF-LIFE HAS EXPIRED
- 2 | DETERMINE WHETHER TO DESTROY OR TO RETURN PHARMACEUTICALS TO MANUFACTURER
- 3 | DO AN INVENTORY OF DRUGS OTHER THAN NARCOTICS AND CONTROLLED DRUGS
- 4 | CLASSIFY AND STORE DRUGS
- 5 | CHECK DRUGS FOR VISIBLE CONTAMINATION/DETERIORATION, E.G. CLOUDINESS, COLOR CHANGE
- 6 | DETERMINE EXPIRATION DATE OF LOCALLY COMPOUNDED PHARMACEUTICALS
- 7 | NEGOTIATE WITH CIVILIAN SUPPLIERS REGARDING NEW DRUGS
- 8 | READ/USE PHARMACEUTICAL MANUALS, FORMULARY, PDR
- 9 | WEIGH/MEASURE CHEMICALS
- 10 | CONVERT MEDICATION DOSAGE FROM CC TO MINIMS, GRAINS TO GRAM
- 11 | CONVERT COMMON WEIGHTS AND MEASURES FROM ONE SYSTEM TO ANOTHER, E.G. CC TO TSP, LBS TO KG
- 12 | CONVERT SOLUTION CONCENTRATIONS FROM GM/MG % TO MEQ/L AND VICE VERSA
- 13 | COMPUTE AMOUNTS OF INGREDIENTS FOR COMPOUNDING/PREPARING PHARMACEUTICALS
- 14 | MAKE DILUTIONS OF MEDICINALS
- 15 | PREPARE LOCAL ANESTHETIC SOLUTIONS FOR USE
- 16 | PREPARE OPHTHALMIC SOLUTIONS
- 17 | FILL PATIENT PRESCRIPTIONS
- 18 | ISSUE FILLED PRESCRIPTIONS
- 19 | ISSUE NON-PRESCRIPTION MEDICATIONS E.G. ASPIRIN
- 20 | DETERMINE SIMILARITIES BETWEEN PHARMACEUTICAL TRADE NAMES AND GENERIC NAMES
- 21 | CHECK PRESCRIBED MEDICATIONS FOR INCOMPATIBILITIES OF ADMINISTRATION OR MIXING
- 22 | NOTIFY DOCTOR OF ERRORS IN MEDICATION ORDERS
- 23 | LABEL MEDICINE GLASSES WITH NAME AND AMOUNT OF DRUG FOR STERILE FIELD
- 24 | APPLY TOPICAL MEDICATION TO MUCOSAL TISSUE, E.G. ORAL, EYE, STOMA
- 25 | APPLY TOPICAL ANESTHESIA

TASK NO. ENTER RESPONSES TO STATEMENTS BELOW IN RIGHT SIDE OF PAGE 03
OF RESPONSE BOOKLET

- 26 ADMINISTER TISSUE INFILTRATION/LOCAL ANESTHESIA
- 27 ADMINISTER MEDICATION BY SUBCUTANEOUS INJECTION
- 28 ADMINISTER INTRADERMAL INJECTION
- 29 ADMINISTER MEDICATION BY INTRAMUSCULAR INJECTION
- 30 ADMINISTER MEDICATION TO EYE/EAR/NOSE
- 31 TERMINATE INTRAVENOUS DYE FLOW AND REMOVE INJECTOR
- 32 PRESCRIBE LOZENGES, THROAT GARGLES, EXPECTORANTS
- 33 CHECK DRESSINGS, E.G. FOR CLEANLINESS
- 34 APPLY/CHANGE STERILE DRESSINGS
- 35 GIVE PHISOHEX/BETADINE SCRUB TO PATIENTS
- 36 SHAVE AND SCRUB PATIENT FOR SURGERY OR DELIVERY OR TREATMENT OR EXAMINATION
- 37 PREPARE SKIN SITE WITH ANTISEPTIC SOLUTION PRIOR TO INCISION/ SUTURING/TREATMENT OR EXAMINATION
- 38 GROUND PATIENT, E.G. FOR ELECTRICAL CAUTERIZATION, DEFIBRILLATION, EKG
- 39 POSITION/HOLD RETRACTORS TO MAINTAIN OPEN INCISION
- 40 REMOVE FLUID FROM SURGICAL SITE WITH SPONGES OR SUCTION
- 41 PREPARE AND POSITION PROSTHESIS/GRAFT TISSUE DURING SURGICAL PROCEDURE
- 42 REMOVE SUTURES
- 43 CUT SUTURES AT SURGICAL SITE
- 44 TIE SUTURES/LIGATURES FOR HEMOSTASIS
- 45 SUTURE SKIN
- 46 SUTURE MUSCLE
- 47 SUTURE SUBCUTANEOUS TISSUE
- 48 SUTURE MUCOSAL TISSUE
- 49 CUT TISSUE AS DIRECTED BY SURGEON
- 50 FIRST ASSIST DURING MAJOR SURGERY

| TASK NO. | ENTER RESPONSES TO STATEMENTS BELOW IN LEFT SIDE OF PAGE 04
OF RESPONSE BOOKLET

- 1 | CLAMP BLOOD VESSELS
- 2 | CONTROL MINOR BLEEDING, E.G. AFTER EXTRACTION OR INCISION
- 3 | CAUTERIZE BLEEDERS WITH ELECTRIC CAUTERY (BOVIF)
- 4 | CONTROL BLEEDING BY PRESSURE DRESSING
- 5 | CAUTERIZE BLEEDERS WITH CHEMICAL, E.G. SILVER NITRATE STICK,
| POWDER
- 6 | CLEAN WOUND, CUT, ABRASION
- 7 | CHECK/EXAMINE INCISIONS/WOUNDS FOR PROGRESS OF HEALING
- 8 | REMOVE SUPERFICIAL FOREIGN BODY FROM TISSUE
- 9 | OBTAIN EQUIPMENT, MEDICATIONS, INSTRUMENTS P.R.N. FOR PERSONNEL
| PERFORMING STERILE PROCEDURE
- 10 | OBTAIN PROSTHESIS FOR SURGICAL PROCEDURE, E.G. AORTIC GRAPH,
| PIN, PLATE, IMPLANT
- 11 | SET UP MAYO STAND WITH INSTRUMENTS
- 12 | SET UP SURGICAL BACK TABLE WITH STERILE INSTRUMENTS/EQUIPMENT
- 13 | SET UP SUTURE BOOK/TOWEL
- 14 | PREPARE SUTURE BOLSTERS
- 15 | CLEAN AND REPOSITION INSTRUMENTS DURING SURGICAL PROCEDURE
- 16 | ADJUST SURGICAL INSTRUMENTS/EQUIPMENT DURING SURGICAL PROCEDURE
- 17 | ADJUST SURGICAL SPOT LIGHT
- 18 | FLASH STERILIZE INSTRUMENTS
- 19 | COUNT NEEDLES/INSTRUMENTS PRE/POST SURGERY
- 20 | COUNT SPONGES DURING/AFTER SURGICAL PROCEDURE
- 21 | COLLECT, COUNT AND LAYOUT USED SPONGES FOR CALCULATING BLOOD
| LOSS AND FOR SPONGE COUNT
- 22 | WEIGH USED SPONGES FOR CALCULATING BLOOD LOSS
- 23 | PASS STERILE DRAPES TO SURGEON
- 24 | PASS INSTRUMENTS TO PHYSICIAN
- 25 | PASS STERILE MATERIALS, EQUIPMENT, MEDICATION, TO PERSONNEL
| PERFORMING STERILE PROCEDURE

TASK NO.	ENTER RESPONSES TO STATEMENTS BELOW IN RIGHT SIDE OF PAGE 04 OF RESPONSE BOOKLET	
26	PASS STERILE ACCESSORIES, EQUIPMENT, E.G. TUBING, CORD TO CIRCULATOR FOR CONNECTION	
27	PASS CONTAMINATED MATERIAL TO CIRCULATOR	
28	PASS SPECIMEN TO CIRCULATOR	
29	MAINTAIN DRY STERILE FIELD DURING SURGERY	
30	SCRUB FOR SURGERY/STERILE PROCEDURE	
31	GOWN FOR STERILE PROCEDURE	
32	GLOVE FOR STERILE PROCEDURE	
33	REPORT BREAK IN STERILE TECHNIQUE TO PERSONNEL	
34	GOWN AND GLOVE PERSONNEL FOR STERILE PROCEDURE	
35	TIE UP SURGICAL GOWN FOR SCRUBBED PERSONNEL	
36	REMOVE CONTAMINATED GLOVES FROM SURGICAL TEAM	
37	HOLD VIALS/AMPULES OF DRUGS FOR USE AND DRUG VERIFICATION DURING STERILE PROCEDURE	
38	POUR STERILE SOLUTION, E.G. STERILE WATER, SALINE	
39	INCISION AND DRAINAGE	SCRUB
40	INCISION AND DRAINAGE	CIRCULATE
41	SKIN GRAFTS	SCRUB
42	SKIN GRAFTS	CIRCULATE
43	HOMO GRAFTS	SCRUB
44	HOMO GRAFTS	CIRCULATE
45	SCAR REVISIONS	SCRUB
46	SCAR REVISIONS	CIRCULATE
47	BLEPHAROPLASTY	SCRUB
48	BLEPHAROPLASTY	CIRCULATE
49	ENUCLEATION	SCRUB
50	ENUCLEATION	CIRCULATE

ENTER RESPONSES TO STATEMENTS BELOW IN LEFT SIDE OF PAGE 05
OF RESPONSE BOOKLET

1	EXCISION OF PTERYGIUM	SCRUB
2	EXCISION OF PTERYGIUM	CIRCULATE
3	CORNEAL TRANSPLANT	SCRUB
4	CORNEAL TRANSPLANT	CIRCULATE
5	REPAIR OF STRABISMUS	SCRUB
6	REPAIR OF STRABISMUS	CIRCULATE
7	REPAIR OF RETINAL DETACHMENT	SCRUB
8	REPAIR OF RETINAL DETACHMENT	CIRCULATE
9	DISCISSION/NEEDLING OF CATARACT	SCRUB
10	DISCISSION/NEEDLING OF CATARACT	CIRCULATE
11	REMOVAL OF CATARACT, INTRACAPSULAR	SCRUB
12	REMOVAL OF CATARACT, INTRACAPSULAR	CIRCULATE
13	EXCISION OF CHALAZION	SCRUB
14	EXCISION OF CHALAZION	CIRCULATE
15	CRYOCYCLODIATHERMY	SCRUB
16	CRYOCYCLODIATHERMY	CIRCULATE
17	CRYOPEXY (PHOTO OR CRYOCOAGULATION)	SCRUB
18	CRYOPEXY (PHOTO OR CRYOCOAGULATION)	CIRCULATE
19	LASER EYE SURGERY	SCRUB
20	LASER EYE SURGERY	CIRCULATE
21	REPAIR OF ORBITAL FRACTURE, E.G. RIM	SCRUB
22	REPAIR OF ORBITAL FRACTURE, E.G. RIM	CIRCULATE
23	EXCISION OF BASAL CELLS OF LID	SCRUB
24	EXCISION OF BASAL CELLS OF LID	CIRCULATE
25	REPAIR OF BLOW OUT FRACTURE OF EYE ORBIT	SCRUB

GO TO RIGHT HAND PAGE

RIGHT PAGE 05 OPTH (HOSP CORPS) TASK BOOKLET

TASK NO. | ENTER RESPONSES TO STATEMENTS BELOW IN RIGHT SIDE OF PAGE 05
| OF RESPONSE BOOKLET

26	REPAIR OF BLOW OUT FRACTURE OF EYE ORBIT	CIRCULATE
27	PLASTIC REPAIR OF EYELID, E.G. COSMETIC	SCRUB
28	PLASTIC REPAIR OF EYELID, E.G. COSMETIC	CIRCULATE
29	NASO-LACRIMAL DUCT PROBING	SCRUB
30	NASO-LACRIMAL DUCT PROBING	CIRCULATE
31	EYE EXAM UNDER ANESTHESIA	SCRUB
32	EYE EXAM UNDER ANESTHESIA	CIRCULATE
33	REMOVAL OF CORNEAL FOREIGN BODY	SCRUB
34	REMOVAL OF CORNEAL FOREIGN BODY	CIRCULATE
35	REMOVAL OF INNER OCULAR FOREIGN BODY	SCRUB
36	REMOVAL OF INNER OCULAR FOREIGN BODY	CIRCULATE
37	REPAIR OF PROLAPSED IRIS	SCRUB
38	REPAIR OF PROLAPSED IRIS	CIRCULATE
39	GLAUCOMA FILTERIZATION, E.G. SCHEIE	SCRUB
40	GLAUCOMA FILTERIZATION, E.G. SCHEIE	CIRCULATE
41	DACRYOCYSTORRHINOSTOMY	SCRUB
42	DACRYOCYSTORRHINOSTOMY	CIRCULATE
43	CATARACT ASPIRATION	SCRUB
44	CATARACT ASPIRATION	CIRCULATE
45	GONIOTOMY	SCRUB
46	GONIOTOMY	CIRCULATE
47	EVISCKERATION	SCRUB
48	EVISCKERATION	CIRCULATE
49	REPAIR OF CORNEAL LACERATION	SCRUB
50	REPAIR OF CORNEAL LACERATION	CIRCULATE

TURN PAGE

LEFT PAGE 05 OPHTH (HOSP CORPS) TASK BOOKLET

TASK NO.	ENTER RESPONSES TO STATEMENTS BELOW IN LEFT SIDE OF PAGE 05 OF RESPONSE BOOKLET
1	IRIDECTOMY SCRUB
2	IRIDECTOMY CIRCULATE
3	REPAIR OF SCLERAL LACERATION SCRUB
4	REPAIR OF SCLERAL LACERATION CIRCULATE
5	CYCLECTOMY SCRUB
6	CYCLECTOMY CIRCULATE
7	PLASTIC REPAIR OF ENTROPION/ECTROPION SCRUB
8	PLASTIC REPAIR OF ENTROPION/ECTROPION CIRCULATE
9	EXCISIONAL BIOPSY OF CONJUNCTIVAL TUMOR SCRUB
10	EXCISIONAL BIOPSY OF CONJUNCTIVAL TUMOR CIRCULATE
11	VITREOUS TRANSPLANT SCRUB
12	VITREOUS TRANSPLANT CIRCULATE
13	OPEN REDUCTION OF ZYGOMATIC ARCH SCRUB
14	OPEN REDUCTION OF ZYGOMATIC ARCH CIRCULATE
15	IRRIGATE EYES
16	IRRIGATE LACRIMAL DUCTS
17	REMOVE FOREIGN BODY FROM CONJUNCTIVAL SAC
18	REMOVE EMBEDDED FOREIGN BODY FROM CORNEA
19	PATCH EYES
20	INSERT/REMOVE GLASS EYE/CONTACT LENSES
21	ASCERTAIN IF PATIENT HAS BEEN PREPPED FOR TEST/TREATMENT PROCEDURE
22	PICK UP/DELIVER SPECIMENS
23	LABEL/ACCESSION SPECIMEN CONTAINERS, E.G. TUBES, SLIDES
24	PREPARE, LABEL AND SEND CULTURE SPECIMENS TO LABORATORY
25	PREPARE, LABEL AND SEND BIOPSY SPECIMENS TO LABORATORY

GO TO RIGHT HAND PAGE

TASK NO. | ENTER RESPONSES TO STATEMENTS BELOW IN RIGHT SIDE OF PAGE 36
1 | OF RESPONSE BOOKLET

- 26 | TAKE SKIN SCRAPE SPECIMEN FROM PATIENT
- 27 | TAKE WOUND SPECIMEN FROM PATIENT
- 28 | SCRAPE EYE ULCERS/CONJUNCTIVA FOR MICROBIOLOGICAL SPECIMENS
- 29 | PREPARE SMEARS FOR MICROSCOPIC ANALYSIS
- 30 | SET UP AND MAINTAIN STAINING PROCEDURE
- 31 | READ EQUIPMENT MANUALS FOR OPERATION AND MAINTENANCE OF
EQUIPMENT
- 32 | INITIATE TREATMENT PROCEDURES IN THE ABSENCE OF A DOCTOR
- 33 | DETERMINE NEED TO NOTIFY DOCTOR/NURSE OF PATIENT'S CONDITION
- 34 | REFER PATIENT TO DOCTOR FOR TREATMENT
- 35 | INFORM DOCTOR/NURSE OF PATIENT'S CONDITION, E.G. DESCRIPTION OF
INJURY, SYMPTOMS, RESPONSE
- 36 | CARRY OUT DOCTOR'S VERBAL ORDERS
- 37 | CONSULT DOCTOR OR NURSE TO OBTAIN INFORMATION/ADVICE ON PATIENT
CARE
- 38 | REVIEW DOCTOR'S ORDERS AND INSTRUCTIONS WITH DOCTOR
- 39 | ENSURE THAT DOCTOR'S ORDERS ARE CARRIED OUT
- 40 | MAKE SUGGESTION REGARDING PATIENT CARE, E.G. NEED OF MEDICATION,
TREATMENT
- 41 | MAKE SUGGESTION REGARDING NEED FOR DIAGNOSTIC TESTS
- 42 | INITIATE AND ORDER DIAGNOSTIC TEST
- 43 | REVIEW TEST/EXAMINATION/CONSULTATION REPORTS FOR ABNORMAL
(POSITIVE) FINDINGS
- 44 | CONFER WITH CORPSMAN TO DISCUSS PATIENT TREATMENT/PROGRESS/
PROBLEM
- 45 | CONDUCT TEAM/WARD CONFERENCE (CLASS) ON PROBLEM/PROGRESS OF
INDIVIDUAL PATIENT
- 46 | VERIFY COMPLETENESS OF DOCTOR'S ORDERS, E.G. FOR ALL ROUTINE
ADMISSION OR PRE-OP ORDERS
- 47 | WRITE NURSING NOTES
- 48 | WRITE ORDERS IN PATIENT'S CHART FOR DOCTOR'S COUNTERSIGNATURE
- 49 | DETERMINE PRIORITIES FOR TREATMENT OF PATIENTS
- 50 | REVIEW PAST AND PRESENT MEDICAL/DENTAL HISTORY TO PLAN CARE

TASK NO.	ENTER RESPONSES TO STATEMENTS BELOW IN LEFT SIDE OF PAGE 07 OF RESPONSE BOOKLET
1	CLEAN AND DISINFECT WORKING AREA
2	CLEAN/DISINFECT O.R. ROOM AFTER LAST CASE OF THE DAY
3	CLEAN/DISINFECT O.R. FLOORS/FURNITURE AFTER EACH CASE
4	SET UP O.R. ROOM FOR SEPTIC CASE
5	CLEAN/DISINFECT O.R. ROOM AFTER SEPTIC CASE
6	CHANGE LINENS, E.G. BED, EXAM TABLES, BEDSIDE CURTAIN
7	REVIEW AND EVALUATE ASEPTIC TECHNIQUES
8	REVIEW AND EVALUATE BACTERIAL DECONTAMINATION PROCEDURES
9	WRITE STANDARD INSTRUCTIONS FOR PATIENT CONCERNING EXAMINATIONS/THERAPY OR PROCEDURES
10	ESTABLISH SURGERY SCHEDULE
11	INSPECT FOR AVAILABILITY AND USE OF SAFETY EQUIPMENT IN HAZARDOUS AREAS
12	INSPECT FOR USE OF PROTECTIVE CLOTHING IN OCCUPATIONALLY HAZARDOUS AREAS
13	CHECK EQUIPMENT FOR ELECTRICAL HAZARDS AND GROUNDS
14	DO PERIODIC MECHANICAL SAFETY CHECKS ON POWER OPERATED EQUIPMENT
15	CHECK INSTRUMENTS AND SUPPLIES FOR STERILIZATION INDICATORS
16	DISPOSE OF SUPPLIES/INSTRUMENTS/EQUIPMENT AFTER TIME LIMIT/EXPIRATION DATE
17	INSPECT THAT SUPPLIES/MATERIALS/EQUIPMENT ARE STORED PROPERLY
18	INSPECT SUPPLIES/EQUIPMENT FOR ACCEPTABILITY/DAMAGE/LOSS/PILFERAGE
19	MAINTAIN STOCK OF STERILE SUPPLIES
20	PICK UP/DELIVER EQUIPMENT
21	STORE SUPPLIES
22	STORE INSTRUMENTS
23	UNPACK EQUIPMENT
24	MAKE UP STERILE TRAYS
25	MAKE SPECIAL SURGICAL SPONGES

ENTER RESPONSES TO STATEMENTS BELOW IN RIGHT SIDE OF PAGE 07
OF RESPONSE BOOKLET

- 26 COUNT SPONGES FOR O.P. PACKS
- 27 SELECT/SET UP STANDARD INSTRUMENT TRAYS FOR SCHEDULED SURGERY
- 28 SELECT/SET UP INSTRUMENTS FOR SPECIAL SURGICAL PROCEDURE
- 29 SELECT/SET UP INSTRUMENTS FOR SMALL PACKS
- 30 ASSEMBLE/SELECT NEEDLES FOR NEEDLE BOOK
- 31 PREPARE AND STERILIZE LINEN
- 32 PACKAGE (WRAP/DATE/LABEL) STERILE SUPPLIES
- 33 REPLENISH OPERATING ROOM WITH SUPPLIES
- 34 VERIFY/SIGN OFF ON REQUISITIONS/RECEIPTS FOR SUPPLIES/EQUIPMENT/
MATERIAL
- 35 VERIFY AND CO-SIGN INVENTORY
- 36 DO SUPPLY/EQUIPMENT INVENTORY
- 37 ROTATE INVENTORY
- 38 WASH GLASSWARE/INSTRUMENTS
- 39 DISINFECT INSTRUMENTS/MATERIALS/EQUIPMENT
- 40 DETERMINE METHOD OF STERILIZATION FOR INSTRUMENTS/EQUIPMENT
- 41 DETERMINE/SELECT AGENTS/PROCESSES FOR EQUIPMENT/INSTRUMENT
STERILIZATION
- 42 TEST AUTOCLAVE EFFECTIVENESS WITH CULTURE STRIPS
- 43 BREAK DOWN SURGICAL INSTRUMENTS FOR POST OPERATIVE CLEANING
- 44 ASSEMBLE PATIENT RECORDS FOR REVIEW BY DOCTOR
- 45 CHECK CONSULTATION REQUESTS TO INSURE THE CORRECT STUDY IS TO BE
CARRIED OUT
- 46 SCHEDULE APPOINTMENTS FOR CLINIC/DEPARTMENT, E.G., MAINTAIN
APPOINTMENT BOOK
- 47 MAINTAIN DAILY RECORDS ON PATIENT PROCEDURES/EXAMINATIONS
PERFORMED
- 48 ASSIGN WORK TO PATIENTS
- 49 PREPARE REPORT/FEEDER REPORT ON NUMBERS OF INPATIENT/OUTPATIENT
SERVICES PERFORMED
- 50 OBTAIN CONSENTS FOR PROCEDURES/AUTOPSY

LEFT PAGE OR DPHH (HOSP CORPS) TASK BOOKLET

TASK NO. | ENTER RESPONSES TO STATEMENTS BELOW IN LEFT SIDE OF PAGE OR
| OF RESPONSE BOOKLET

- 1 | ASSIGN PERSONNEL TO DUTIES/WORK ACCORDING TO SCHEDULE
- 2 | ANSWER TELEPHONE/TAKE MESSAGES, MEMOS
- 3 | ASSIGN SPACE FOR EQUIPMENT AND SUPPLIES
- 4 | ARRANGE FOR BRIEFINGS
- 5 | CALCULATE LAB/DIAGNOSTIC TEST RESULTS
- 6 | COORDINATE WITH OTHER SECTIONS FOR ASSISTANCE IN FABRICATING
EQUIPMENT
- 7 | LOCATE MISPLACED CHARTS/HEALTH RECORDS
- 8 | LOG CHANGES/DELETIONS OF OPERATING PROCEDURES ON SLATE IN
OPERATING ROOM
- 9 | MAINTAIN TECHNIQUE CHARTS
- 10 | MAINTAIN DUTY/CALL/EMERGENCY RECALL POSTER
- 11 | ESTABLISH/MAINTAIN SUTURE/INSTRUMENT TRAY CARDS
- 12 | MAINTAIN ATTENDANCE RECORDS
- 13 | PREPARE REQUISITIONS FOR DIAGNOSTIC PROCEDURES, E.G. LAB, EEG
- 14 | PREPARE WORK ORDERS/WORK REQUESTS
- 15 | CHECK PATIENTS CHART/HEALTH RECORD FOR COMPLETENESS OF FORMS/
REPORTS/RECORDS
- 16 | ORDER SUPPLIES/EQUIPMENT THROUGH FEDERAL SUPPLY SYSTEM
- 17 | PREPARE REQUEST FORM FOR PHOTOGRAPHIC/PRINTING SERVICES
- 18 | ARRANGE FOR/FOLLOW UP COMPLETION OF CLINICAL LABORATORY TEST
- 19 | MAINTAIN INSTRUMENT CALIBRATION FILES
- 20 | CHECK/LOCATE/IDENTIFY PART NUMBERS FROM CATALOGUES/MANUALS
- 21 | LOG LOCAL PURCHASE INFORMATION
- 22 | MAKE LOCAL (OPEN) PURCHASE OF SUPPLIES
- 23 | PREPARE REQUISITIONS FOR SUPPLIES/EQUIPMENT
- 24 | REQUISITION TRAINING AIDS FROM OTHER HOSPITALS/CLINICS OR
CIVILIAN/GOVERNMENT HEALTH FACILITIES
- 25 | LOG IN PATIENTS TO CLINIC/DEPARTMENT/SICK CALL

GO TO RIGHT HAND PAGE

TASK NO.	ENTER RESPONSES TO STATEMENTS BELOW IN RIGHT SIDE OF PAGE 08 OF RESPONSE BOOKLET
26	DETERMINE ADEQUACY OF STERILIZATION PROCEDURES
27	DEVELOP IMPROVED WORK METHODS AND PROCEDURES
28	ASSESS COMPLETENESS OF LABORATORY REPORTS
29	DETERMINE EQUIPMENT/SUPPLIES FOR EMERGENCIES/EXERCISES
30	DETERMINE IF REPAIR IS WITHIN UNIT CAPABILITIES
31	RESEARCH MATERIAL FOR PROJECTS, I.E. COMPILE STATISTICS, GATHER DATA FROM DIFFERENT SOURCES
32	SUPERVISE ROUTINE EQUIPMENT MAINTENANCE FOR SECTION/UNIT
33	ARRANGE FOR REPLACEMENT/REPAIR OF EQUIPMENT AS REQUIRED
34	CONFER/VISIT MANUFACTURERS/CONTRACTORS TO OBTAIN FIRST HAND KNOWLEDGE OF EQUIPMENT/SUPPLIES
35	CONSULT ON CENTRAL/LOCAL SUPPLY PROBLEMS/PROCEDURES
36	COORDINATE ON EQUIPMENT LOANS, BORROWING OF MEDICAL/DENTAL SUPPLIES/TRAINING AIDS
37	COORDINATE WITH MANUFACTURERS/CONTRACTORS FOR EQUIPMENT REPAIR/MAINTENANCE
38	SUPERVISE/DIRECT UNITS'S OJT PROGRAM
39	PLAN CONTENT FOR OJT PROGRAM
40	SCHEDULE LECTURES
41	DESIGN TRAINING AIDS, ILLUSTRATIONS, GRAPHICS
42	SELECT CLINICAL MATERIAL FOR INSTRUCTIONAL PURPOSES, E.G. PATIENTS, CASE STUDIES
43	EVALUATE/SELECT AUDIOVISUAL MATERIALS, E.G. FILMS
44	CONDUCT SEMINARS
45	PLAN CONFERENCES FOR STUDENTS DURING PRACTICAL TRAINING
46	TEACH FORMAL CLASSES
47	COMPUTE TEST GRADES
48	DEMONSTRATE CLINICAL PROCEDURES USING PATIENT/SUBJECT
49	SELECT WORK EXPERIENCES FOR STUDENT/TRAINEE
50	EVALUATE STUDENTS PERFORMANCE/PROGRESS

LEFT PAGE 09 OPNTH (HOSP CORPS) TASK BOOKLET

TASK NO. | ENTER RESPONSES TO STATEMENTS BELOW IN LEFT SIDE OF PAGE 09
| OF RESPONSE BOOKLET

- 1 | COORDINATE WITH SUPERVISORS/INSTRUCTORS ON STUDENT TRAINING
- 2 | DESIGN SPECIAL RESEARCH EQUIPMENT/DEVICES
- 3 | BUILD SPECIAL EQUIPMENT/DEVICES FOR RESEARCH
- 4 | OPERATE/CONTROL EQUIPMENT FOR EXPERIMENTAL TESTS
- 5 | CALIBRATE/TEST EXPERIMENTAL EQUIPMENT/APPARATUS

Part II B

LIST OF INSTRUMENTS AND EQUIPMENT

LEFT PAGE 10 OPHTH (HOOSP CORPS) TASK BOOKLET

ENTER RESPONSES TO STATEMENTS BELOW IN LEFT SIDE OF PAGE 10
OF RESPONSE BOOKLET

- | | |
|----|--|
| 1 | TRAY, EYE IRRIGATION |
| 2 | LACRIMAL DUCT IRRIGATION TRAY |
| 3 | EYE DRESSING TRAY |
| 4 | HARRINGTON FLOCKS SCREENER, EYE |
| 5 | PERIMETER, STANDARD |
| 6 | TANGENT SCREEN |
| 7 | SLIT LAMP FOR EYE TESTING |
| 8 | SLIT LAMP MICROSCOPE |
| 9 | EYE FOREIGN BODY REMOVER, E.G., SPUO |
| 10 | EYE CHART, ASTIGMATISM |
| 11 | EYE CHART, DISTANCE AND NEAR |
| 12 | DIATHERMY EQUIPMENT, OPHTHALMIC, E.G. MIRA |
| 13 | PHOROMETER, OPHTHALMIC |
| 14 | TRIAL LENS SET, OPHTHALMIC |
| 15 | TRIAL FRAME SET, OPHTHALMIC |
| 16 | OPHTHALMOSCOPE |
| 17 | RETINOSCOPE |
| 18 | PHOROPTER |
| 19 | PRINCE RULE |
| 20 | SYNOPTOPHORE |
| 21 | AMBLYSCOPE |
| 22 | TROPOSCOPE |
| 23 | KERATOMETER (OPHTHALMOMETER) |
| 24 | COLOR VISION ANALOSCOPE |
| 25 | GOLDMAN STATIC PERIMETER |

GO TO RIGHT HAND PAGE

 | TASK NO. | ENTER RESPONSES TO STATEMENTS BELOW IN RIGHT SIDE OF PAGE 10
OF RESPONSE BOOKLET

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|----|---|
| 26 | GOLDMAN-WEEKERS DARK ADAPTOMETER |
| 27 | STROBOSCOPE |
| 28 | COLOR VISION PLATES, E.G. PIP |
| 29 | COLOR VISION LANTERNS, E.G. FARNSWORTH |
| 30 | AFVT MACHINE |
| 31 | PROJECTOR LAMP FOR SNELLEN CHARTS |
| 32 | ELECTRIC TONOGRAPH |
| 33 | TONOMETER |
| 34 | LENSOMETER |
| 35 | LIGHT INTENSITY METER |
| 36 | PHOTIC STIMULATOR UNIT |
| 37 | 100-HUE COLOR VISION PHOTOCOAGULATOR |
| 38 | MADDOX ROD |
| 39 | ERG (ELECTRORETINOGRAPH) MACHINE |
| 40 | FUNDUS CAMERA |
| 41 | ELECTRONYSTAGNOGRAPH MACHINE |
| 42 | OBSERVATION AND OPERATING TELESCOPE |
| 43 | CRYO RETINA FRIGITRONIC |
| 44 | CRYO CATARACT UNIT |
| 45 | CRYO GLAUCOMA UNIT |
| 46 | SURGICAL INSTRUMENT SHARPENER, ELECTRIC |
| 47 | INSTRUMENT TRAY, MUSCLE, EYE |
| 48 | INSTRUMENT TRAY, LID |
| 49 | INSTRUMENT TRAY, RETINA |
| 50 | INSTRUMENT TRAY, CATARACT |

ENTER RESPONSES TO STATEMENTS BELOW IN LEFT SIDE OF PAGE 11
OF RESPONSE BOOKLET

- 1 INSTRUMENT TRAY, GLAUCOMA
- 2 INSTRUMENT TRAY, CORNEA
- 3 CAUTERY APPARATUS
- 4 SCHEIE CAUTERY UNIT
- 5 OPERATING MICROSCOPE, E.G. ZEISS, DIPLOSCOPE
- 6 FIBER OPTIC LASER
- 7 RUBY LASER
- 8 LASER PHOTOCOAGULATOR
- 9 SPONGES, SURGICAL (RADIOPAQUE)
- 10 FIBEROPTIC RETRACTORS
- 11 FORCEPS, HEMOSTATIC
- 12 IRIS FORCEPS
- 13 LIGHT, ULTRAVIOLET, SPECIMEN EXAMINING
- 14 LABORATORY MICROSCOPE (LIGHT)
- 15 COMPRESSED GAS TANKS/CYLINDERS (OTHER THAN OXYGEN)
- 16 INSTRUMENT WASHER-STERILIZER