

**GUIDELINE FOR DIRECT RECRUITMENT OF PARAMEDICAL  
STAFF IN ORDNANCE & ORDNANCE EQUIPMENT FACTORIES  
INCLUDING SCHEME AND SYLLABUS OF EXAMINATION**

**1. SENIOR NURSE GRADE - II**

- Scheme of examination:

**A. Written Examination: 150 Marks**

Sl. No.	Subject	Marks	Duration of examination
<b>Part-I</b>			<b>TWO HOURS</b>
1.	General Intelligence (10+2 standard) <i>Objective/Multiple-choice type</i>	25	
2.	General Awareness (10+2 standard) <i>Objective/Multiple-choice type</i>	25	
<b>Part-II</b>			
3.	Technical knowledge <i>Objective/Multiple-choice type</i>	100	

**B. Skill Test: 50 Marks**

Only those candidates who attain a minimum-qualifying standard of 40% in the written examination will be eligible to be called for skill test. The candidates qualifying as above should be called for skill test subject to the condition that the total number of candidates called for skill test does not exceed five times the declared vacancies.

- Syllabus for examination:

**A. General Intelligence:**

The questions will be of 10+2 standard and would include both verbal and non-verbal type. The test may include questions to test the candidates understanding of English language and its correct usage.

*B. General Awareness:*

The questions will be designed to test the ability of the general awareness of the environment around the candidate and its application to society. Questions will also be designed to test knowledge of current events and of such matters of everyday observation and experience in their scientific aspects as may be expected of an educated person of 10+2 standard. The test will also include questions relating to India and its neighbouring countries especially pertaining to History, Culture, Geography, Economic scene, General Polity and Scientific Research.

*C. Technical Knowledge:*

The questions will be designed to test the knowledge and competence of the candidates' technical knowledge as per standard syllabus of Diploma in General nursing and Midwifery.

*D. Skill Test:*

The skill test should be designed to test the practical ability and skill of the candidates' in the following fields:

1. Setting the trolley for a specified surgical operation.
2. Identification of surgical instruments and surgical materials, practical knowledge about their usage, practical knowledge about surgical knots and OT table positions.
3. Practical knowledge of Scrubbing, gowning, gloving and draping.
4. Application of plaster cast.
5. Practical knowledge of basic life support, advanced life support & trauma care.
6. Practical knowledge regarding emergency medicines and operation of emergency equipments.
7. Practical knowledge in assisting different procedures carried out in the Hospitals, like pleural tapping, Lumbar Puncture, bone marrow aspiration etc.
8. Practical knowledge of delivery and care of the newborn, setting up delivery tray, emergency evacuation, antenatal care, post-natal cares.
9. Practical knowledge of vital signs monitoring.
10. Skills of working on computer.

## 2. MIDWIFE

- Scheme of examination:

### A. *Written Examination:* **150 Marks**

Sl. No.	Subject	Marks	Duration of examination
<b>Part-I</b>			<b>TWO HOURS</b>
1.	General Intelligence (10+2 standard) <i>Objective/Multiple-choice type</i>	25	
2.	General Awareness (10+2 standard) <i>Objective/Multiple-choice type</i>	25	
<b>Part-II</b>			
3.	Technical knowledge <i>Objective/Multiple-choice type</i>	100	

### B. *Skill Test:* **50 Marks**

Only those candidates who attain a minimum-qualifying standard of 40% in the written examination will be eligible to be called for skill test. The candidates qualifying as above should be called for skill test subject to the condition that the total number of candidates called for skill test does not exceed five times the declared vacancies.

- Syllabus for examination:

### A. *General Intelligence:*

The questions will be of 10+2 standard and would include both verbal and non-verbal type. The test may include questions to test the candidates understanding of English language and its correct usage.

### B. *General Awareness:*

The questions will be designed to test the ability of the general awareness of the environment around the candidate and its application to society. Questions will also be designed to test knowledge of current events and of such matters of everyday observation and experience in

their scientific aspects as may be expected of an educated person of 10+2 standard. The test will also include questions relating to India and its neighbouring countries especially pertaining to History, Culture, Geography, Economic scene, General Polity and Scientific Research.

*C. Technical Knowledge:*

The questions will be designed to test the knowledge and competence of the candidates' technical knowledge as per standard syllabus of Auxiliary Nursing Midwifery.

*D. Skill Test:*

The skill test should be designed to test the practical ability and skill of the candidates' in the following fields:

1. Setting up of instruments trolley for different emergency and non-emergency obstetric procedures.
2. Antenatal care, antenatal advice to patients, examination of antenatal patients.
3. Practical knowledge of commonly used drugs and instruments in Labour Room.
4. Scrubbing, gloving, gowning and draping.
5. Skills in writing a delivery records.
6. Conduct of delivery and care of new born.
7. Skills of working on computer.

### 3. Radiographer

- Scheme of examination:

**A. Written Examination: 150 Marks**

Sl. No.	Subject	Marks	Duration of examination
<b>Part-I</b>			<b>TWO HOURS</b>
1.	General Intelligence (10+2 standard) <i>Objective/Multiple-choice type</i>	25	
2.	General Awareness (10+2 standard) <i>Objective/Multiple-choice type</i>	25	
<b>Part-II</b>			
3.	Technical knowledge <i>Objective/Multiple-choice type</i>	100	

**B. Skill Test: 50 Marks**

Only those candidates who attain a minimum-qualifying standard of 40% in the written examination will be eligible to be called for skill test. The candidates qualifying as above should be called for skill test subject to the condition that the total number of candidates called for skill test does not exceed five times the declared vacancies.

- Syllabus for examination:

**A. General Intelligence:**

The questions will be of 10+2 standard and would include both verbal and non-verbal type. The test may include questions to test the candidates understanding of English language and its correct usage.

**B. General Awareness:**

The questions will be designed to test the ability of the general awareness of the environment around the candidate and its application to society. Questions will also be designed to test knowledge of current events and of such matters of everyday observation and experience in

their scientific aspects as may be expected of an educated person of 10+2 standard. The test will also include questions relating to India and its neighbouring countries especially pertaining to History, Culture, Geography, Economic scene, General Polity and Scientific Research.

*C. Technical Knowledge:*

The questions will be designed to test the knowledge and competence of the candidates' as per standard syllabus for three years' Diploma/certificate in Radiology.

*D. Skill Test:*

The skill test should be designed to test the practical ability and skill of the candidates' in the following fields:

1. Skill to interpret the requisition and carry out his duty accordingly.
2. Practical knowledge regarding functioning and maintenance of the X-ray machines, automatic film processors etc.
3. Practical knowledge regarding different contrast media, X-ray plates, different types of dark room procedures, Radiation safety, different types of views for taking radiograph.
4. To take X-ray as per given requisition, develop and fix the X-ray film, assess quality and adequacy of the X-ray film.
5. To identify in a developed X-ray, the anatomical parts, views and gross abnormalities, clinical situations in which such Radiograph was ordered.
6. Skills of working on computer.

#### 4. Pharmacist

- Scheme of examination:

**A. Written Examination: 150 Marks**

Sl. No.	Subject	Marks	Duration of examination
<b>Part-I</b>			<b>TWO HOURS</b>
1.	General Intelligence (10+2 standard) <i>Objective/Multiple-choice type</i>	25	
2.	General Awareness (10+2 standard) <i>Objective/Multiple-choice type</i>	25	
<b>Part-II</b>			
3.	Technical knowledge <i>Objective/Multiple-choice type</i>	100	

**B. Skill Test: 50 Marks**

Only those candidates who attain a minimum-qualifying standard of 40% in the written examination will be eligible to be called for skill test. The candidates qualifying as above should be called for skill test subject to the condition that the total number of candidates called for skill test does not exceed five times the declared vacancies.

- Syllabus for examination:

**A. General Intelligence:**

The questions will be of 10+2 standard and would include both verbal and non-verbal type. The test may include questions to test the candidates understanding of English language and its correct usage.

**B. General Awareness:**

The questions will be designed to test the ability of the general awareness of the environment around the candidate and its application to society. Questions will also be designed to test knowledge of current events and of such matters of everyday observation and experience in

their scientific aspects as may be expected of an educated person of 10+2 standard. The test will also include questions relating to India and its neighbouring countries especially pertaining to History, Culture, Geography, Economic scene, General Polity and Scientific Research.

*C. Technical Knowledge:*

The questions will be designed to test the knowledge and competence of the candidates' technical knowledge as per standard syllabus for the course of Diploma in Pharmacy.

*D. Skill Test:*

The skill test should be designed to test the practical ability and skill of the candidates' in the following fields:

1. Practical ability of making various pharmacological compositions like Calamine lotion, sodi-bi-carb eardrops etc. and dispensing the same.
2. Dispensing drugs as per given prescriptions to patients.
3. Practical knowledge regarding Medical Stores procedures.
4. Skills of working on computer.



## 5. Laboratory Technician

- Scheme of examination:

### A. *Written Examination:* **150 Marks**

Sl. No.	Subject	Marks	Duration of examination
<b>Part-I</b>			<b>TWO HOURS</b>
1.	General Intelligence (10+2 standard) <i>Objective/Multiple-choice type</i>	25	
2.	General Awareness (10+2 standard) <i>Objective/Multiple-choice type</i>	25	
<b>Part-II</b>			
3.	Technical knowledge <i>Objective/Multiple-choice type</i>	100	

### B. *Skill Test:* **50 Marks**

Only those candidates who attain a minimum-qualifying standard of 40% in the written examination will be eligible to be called for skill test. The candidates qualifying as above should be called for skill test subject to the condition that the total number of candidates called for skill test does not exceed five times the declared vacancies.

- Syllabus for examination:

#### A. *General Intelligence:*

The questions will be of 10+2 standard and would include both verbal and non-verbal type. The test may include questions to test the candidates understanding of English language and its correct usage.

#### B. *General Awareness:*

The questions will be designed to test the ability of the general awareness of the environment around the candidate and its application to society. Questions will also be designed to test knowledge of current

events and of such matters of everyday observation and experience in their scientific aspects as may be expected of an educated person of 10+2 standard. The test will also include questions relating to India and its neighbouring countries especially pertaining to History, Culture, Geography, Economic scene, General Polity and Scientific Research.

*C. Technical Knowledge:*

The questions will be designed to test the knowledge and competence of the candidates' technical knowledge as per standard syllabus of Diploma in Medical Laboratory Technology (DMLT) including the fields of Clinical Pathology, Haematology, Bio-Chemistry, Serology, Blood Banking, Microbiology, Immunology etc.

*D. Skill Test:*

The skill test should be designed to test the practical ability and skill of the candidates' in the following fields:

1. Practical knowledge about names, functions and maintenance of different instruments used in Medical testing Laboratories.
2. Skill regarding different clinical test of haematology and blood banking like Hb%, TLC, DLC, ESR, Blood parasite, Electrophoresis, Blood grouping & cross matching, blood transfusion reactions etc.
3. Practical knowledge regarding various investigations in clinical pathology involving urine, stool, sputum etc.
4. Practical ability in different activities relating to Clinical Biochemistry, Serology, Immunology etc.
5. Practical knowledge and ability regarding different procedures relating to Microbiology like preparation of culture media plates & tubes, different culture and staining methods, special microbiological preparations for investigation purposes etc.
6. Practical knowledge of cytology, dehydration, section cutting and staining of histopathology samples and slides.
7. Practical knowledge of Bio-medical hazards and Bio-medical waste management at work place.
8. Skills of working on computer.

## 6. Blood Transfusion Assistant

- Scheme of examination:

### A. *Written Examination:* **150 Marks**

Sl. No.	Subject	Marks	Duration of examination
<b>Part-I</b>			<b>TWO HOURS</b>
1.	General Intelligence (10+2 standard) <i>Objective/Multiple-choice type</i>	25	
2.	General Awareness (10+2 standard) <i>Objective/Multiple-choice type</i>	25	
<b>Part-II</b>			
3.	Technical knowledge <i>Objective/Multiple-choice type</i>	100	

### B. *Skill Test:* **50 Marks**

Only those candidates who attain a minimum-qualifying standard of 40% in the written examination will be eligible to be called for skill test. The candidates qualifying as above should be called for skill test subject to the condition that the total number of candidates called for skill test does not exceed five times the declared vacancies.

- Syllabus for examination:

#### A. *General Intelligence:*

The questions will be of 10+2 standard and would include both verbal and non-verbal type. The test may include questions to test the candidates understanding of English language and its correct usage.

#### B. *General Awareness:*

The questions will be designed to test the ability of the general awareness of the environment around the candidate and its application to society. Questions will also be designed to test knowledge of current events and of such matters of everyday observation and experience in

their scientific aspects as may be expected of an educated person of 10+2 standard. The test will also include questions relating to India and its neighbouring countries especially pertaining to History, Culture, Geography, Economic scene, General Polity and Scientific Research.

*C. Technical Knowledge:*

The questions will be designed to test the knowledge and competence of the candidates' technical knowledge as per standard syllabus of Diploma in Medical Laboratory Technology (DMLT) including the fields of Clinical Pathology, Haematology, Biochemistry, Serology, Blood Banking, Microbiology, Immunology etc.

*D. Skill Test:*

The skill test should be designed to test the practical ability and skill of the candidates' in the following fields:

1. Practical knowledge about functions and maintenance of different instruments used in Clinical Laboratories especially in blood banks.
2. Emphasis should be given on donor selection criteria, bleeding of donor, blood grouping & cross matching and competence as well as knowledge regarding different tests carried out for safe blood transfusion.
3. Skill regarding different clinical test of haematology, blood banking etc. and various investigations in clinical pathology involving urine, stool, sputum etc.
4. Practical knowledge of cleaning of all glassware used in Clinical laboratory and blood banks.
5. Practical ability in different activities relating to Clinical Biochemistry, Serology, Immunology etc.
6. Practical knowledge of Bio-medical hazards and Bio-medical waste management at work place.
7. Skills of working on computer.

## 7. Ambulance Driver (Ordinary Grade)

- Scheme of examination:

### A. *Written Examination:* **150 Marks**

Sl. No.	Subject	Marks	Duration of examination
<b>Part-I</b>			<b>TWO HOURS</b>
1.	General Intelligence (10 standard) <i>Objective/Multiple-choice type</i>	25	
2.	General Awareness (10 standard) <i>Objective/Multiple-choice type</i>	25	
<b>Part-II</b>			
3.	Technical knowledge <i>Objective/Multiple-choice type</i>	100	

### B. *Skill Test:* **50 Marks**

Only those candidates who attain a minimum-qualifying standard of 40% in the written examination will be eligible to be called for skill test. The candidates qualifying as above should be called for skill test subject to the condition that the total number of candidates called for skill test does not exceed five times the declared vacancies.

- Syllabus for examination:

#### A. *General Intelligence:*

The questions will be of 10<sup>th</sup> standard and would include both verbal and non-verbal type. The test may include questions to test the candidates understanding of English language and its correct usage.

#### B. *General Awareness:*

The questions will be designed to test the ability of the general awareness of the environment around the candidate and its application to society. Questions will also be designed to test knowledge of current events and of such matters of everyday observation and experience in

their scientific aspects as may be expected of an educated person of 10<sup>th</sup> standard. The test will also include questions relating to India and its neighbouring countries especially pertaining to History, Culture, Geography, Economic scene, General Polity and Scientific Research.

*C. Technical Knowledge:*

The questions will be designed to test the knowledge and competence of the candidates' technical knowledge in the field of Auxiliary Nursing Midwifery and will be of Auxiliary Nursing Midwifery course standard.

*D. Skill Test:*

The skill test should be designed to test the practical ability and skill of the candidates' in the following fields:

1. Driving Test: The test will be same/similar to the tests as are being conducted by the RTOs before issuing Driving License.
2. Concepts of transportation of sick and injured.
3. Basic knowledge of First-aid.
4. Practical knowledge about preliminary maintenance/repairs of Ambulance vehicles.

## 8. Medical Assistant

- Scheme of examination:

### A. *Written Examination:* **150 Marks**

Sl. No.	Subject	Marks	Duration of examination
<b>Part-I</b>			<b>TWO HOURS</b>
1.	General Intelligence (10+2 standard) <i>Objective/Multiple-choice type</i>	25	
2.	General Awareness (10+2 standard) <i>Objective/Multiple-choice type</i>	25	
<b>Part-II</b>			
3.	Technical knowledge <i>Objective/Multiple-choice type</i>	100	

### B. *Skill Test:* **50 Marks**

Only those candidates who attain a minimum-qualifying standard of 40% in the written examination will be eligible to be called for skill test. The candidates qualifying as above should be called for skill test subject to the condition that the total number of candidates called for skill test does not exceed five times the declared vacancies.

- Syllabus for examination:

#### A. *General Intelligence:*

The questions will be of 10+2 standard and would include both verbal and non-verbal type. The test may include questions to test the candidates understanding of English language and its correct usage.

#### B. *General Awareness:*

The questions will be designed to test the ability of the general awareness of the environment around the candidate and its application to society. Questions will also be designed to test knowledge of current events and of such matters of everyday observation and experience in

their scientific aspects as may be expected of an educated person of 10+2 standard. The test will also include questions relating to India and its neighbouring countries especially pertaining to History, Culture, Geography, Economic scene, General Polity and Scientific Research.

*C. Technical Knowledge:*

The questions will be designed to test the knowledge and competence of the candidates' technical knowledge in the field of First-aid, Ward procedure, Operation Theatre procedure and sterilization etc.

*D. Skill Test:*

The skill test should be designed to test the practical ability and skill of the candidates' in the following fields:

1. Principles of First-aid of wounds, dressing of wounds, stitching of simple wounds.
2. Practical knowledge about vital signs and basic life support.
3. Splinting of fractures, different types of dressings and bandages.
4. Concepts of transportation of sick and injured.
5. Practical knowledge regarding Oxygen administration and using suction apparatus.
6. Practical knowledge about common ward procedures like catheterization, draining of wounds, insertion of feeding tubes, steam inhalation, sponging, administration of ice-bag, hot bag etc.
7. Practical knowledge about attachment of ECG cables, monitor equipment etc.
8. Pre-operative preparation of patients, knowledge about patient registration and admission protocol.
9. Practical knowledge of infection control and waste disposal protocol.
10. Gloving, gowning, draping, concept & procedure for theatre entry, aseptic techniques.
11. Preparation and packing of sterile supplies, room sterilization, surface sterilization etc.
12. Practical knowledge regarding surgical instruments and materials and their usage, trolley setting for various surgeries etc.
13. Concepts about OT tables, its various positions, handling OT instruments like surgical cautery, Boyle's apparatus.
14. Skills of working on computer.



## 9. Ward Sahayak

- Scheme of examination:

### A. *Written Examination:* **150 Marks**

Sl. No.	Subject	Marks	Duration of examination
<b>Part-I</b>			<b>TWO HOURS</b>
1.	General Intelligence (10 standard) <i>Objective/Multiple-choice type</i>	25	
2.	General Awareness (10 standard) <i>Objective/Multiple-choice type</i>	25	
<b>Part-II</b>			
3.	Technical knowledge <i>Objective/Multiple-choice type</i>	100	

### B. *Skill Test:* **50 Marks**

Only those candidates who attain a minimum-qualifying standard of 40% in the written examination will be eligible to be called for skill test. The candidates qualifying as above should be called for skill test subject to the condition that the total number of candidates called for skill test does not exceed five times the declared vacancies.

- Syllabus for examination:

#### A. *General Intelligence:*

The questions will be of 10<sup>th</sup> standard and would include both verbal and non-verbal type. The test may include questions to test the candidates understanding of English language and its correct usage.

#### B. *General Awareness:*

The questions will be designed to test the ability of the general awareness of the environment around the candidate and its application to society. Questions will also be designed to test knowledge of current events and of such matters of everyday observation and experience in

their scientific aspects as may be expected of an educated person of 10<sup>th</sup> standard. The test will also include questions relating to India and its neighbouring countries especially pertaining to History, Culture, Geography, Economic scene, General Polity and Scientific Research.

*C. Technical Knowledge:*

The questions will be designed to test the knowledge and competence of the candidates' technical knowledge in the field of First-aid, Nursing, Ward procedure etc.

*D. Skill Test:*

The skill test should be designed to test the practical ability and skill of the candidates' in the following fields:

1. Bed making.
2. Concepts of transportation of sick and injured, carrying patients in trolley, stretcher wheel chair etc.
3. Sponging patients.
4. Practical knowledge of First-aid, nursing and ward procedures.
5. Identification of simple Hospital equipments and their uses.
6. Dressing simple wounds.

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