

# IGCAR Topics & Pattern



## IGCAR Test Pattern

### IGCAR Stipendiary Trainee Category II, Technician Exam Pattern

#### Stage I

Type of Questions	Subject Names	Total Questions	Total Marks	Exam Duration
Objective questions	Mathematics	20	60	2 Hours
	Science	20	60	
	General Awareness	10	30	
Total		50	150	

#### Stage II

Type of Questions	Subject Names	Total Questions	Total Marks	Exam Duration
Objective Type Questions	Advanced Test in respective Trade	50	150	2 Hours

### Scientific Officer, Stipendiary Trainee Grade I Exam Pattern

Question Type	Names of topics	Questions	Total marks	Test Duration
Objective questions	Relevant Subjects	100	300	2 hours

### IGCAR Technical Officer Test Pattern

Type of Questions	Subject Names	Total Questions	Total Marks	Exam Duration
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Objective questions	Respective Trade	75	225	2 Hours
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## IGCAR UDC Exam Pattern

Level	Exam type	Subject Names	Total questions	Marks	Time Duration
Level-I	Objective	General English	100	100	90 Min
		General Knowledge			
		General Intelligence & Reasoning			
		Quantitative Aptitude (Arithmetic)			
Level-II	Descriptive	English language and Comprehension	–	–	3 hours

## IGCAR Topics

### General English Syllabus

- Active and Passive voice
- Para Jumbles
- Error spotting
- Direct and Indirect speech
- Fill in the blanks
- Vocabulary, etc.

### General Knowledge Syllabus

- Current Events
- Important Awards & Honors
- Science and Technology
- Sports
- Indian Economy
- Political Awareness/ Polity

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- Persons in the News
- Places in the News, etc.

## General Intelligence & Reasoning Syllabus

- Paper-cutting & folding
- Embedded figures.
- Blood Relation
- Classification
- Coding decoding
- <https://www.freshersnow.com/syllabus/>
- Distance direction test
- Syllogism
- Counting of figure
- Figure formation & Analysis
- Figure Series
- Cube & Dice, Mirror Image
- Analogy
- Arithmetic Reasoning

## Quantitative Aptitude

- Average
- Boat & Stream
- Compound & Simple Interest
- LCM & HCF
- Mixture & Alligation
- Partnership
- Percentages
- Pipes & Cistern
- Problem on Ages
- Profit loss & Discount
- Miscellaneous

## Civil Engineering Syllabus

- Concrete Technology.
- Solid Mechanics, Structural Analysis.
- Fluid Mechanics.
- Hydraulic Structures.
- Transportation Engineering.

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- Bridge Engineering.
- Steel Structures.
- Hydrology & Water Resources Engineering.
- Civil Engineering Materials and Construction.
- Construction and Project Management.
- Environmental Engineering.
- PSC Structures.
- Reinforced Concrete Structures.

## **Mechanical Engineering Syllabus**

- Meteorology and Inspection.
- Thermodynamics.
- Energy conservation.
- Engineering Mechanics.
- Engineering Materials.
- Fluid Machines.
- Management Information System.
- The Strength of Materials.
- Production Planning and Control.
- Inventory Control.
- Metal Casting.
- Machining and Machine Tool Operations.
- Heat Transfer.
- Operations Research
- Machining and Machine Tool Operations.
- Theory of Machines.

## **Electrical Engineering Syllabus**

- Network Analysis.
- Control Systems.
- Electrical Machines.
- Power System Analysis & Control.
- Electrical Instrumentation.
- Power Systems.
- Electronics Devices.
- Power Electronics & Drives.
- Analog and Digital Electronics.
- Electromagnetic Theory.
- Power System Protection.

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- Utilization Of Electrical Energy.
- Switch Gear and Protection.