

# Bhabha Atomic Research Centre (BARC)



## BARC Work Assistant Exam Pattern

Subject Name	Number of Questions	Number of Marks
Mathematics	20	60
Science	20	60
General Awareness	10	30
<b>Total</b>	<b>50 Questions</b>	<b>150 Marks</b>
<b>Time Duration: 1 Hour</b>		
<b>Type of Exam: Multiple Choice Questions</b>		

### Note:

- 3 marks will be awarded for each correct answer and 1 mark will be deducted for each incorrect answer.
- Candidates scoring <40% in General Category will be screened out. For reserved candidates, the lowest cut-off will not be fixed below 30%.
- However, the number of candidates shortlisted for Stage-2 will depend upon the number of candidates qualifying in Stage-1 but will not exceed 4-5 times the number of vacancies.

## BARC Work Assistant Advanced Test Pattern 2020

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Subject Name	Number of Questions	Number of Marks
Mathematics	15	45
Science	15	45
General Awareness	10	30
Basic English	10	30
<b>Total</b>	<b>50 Questions</b>	<b>150 Marks</b>
<b>Time Duration: 2 Hour</b>		
<b>Type of Exam: Objective Type Examination</b>		

## Note:

- 3 marks will be awarded for each correct answer and 1 mark will be deducted for each incorrect answer.
- Final Merit List shall be prepared based on the scores obtained in Stage-2.
- *In the event of a tie, the following criteria will be adopted in sequence for deciding position in merit list:* Candidate with lower negative marks in Stage-2 to be placed higher on the merit list.

## BARC Work Assistant Syllabus

### Mathematics

- Simple Equations

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- Quadratic Equations
- Indices and Surds
- Mensuration
- Percentages
- Areas
- Time and Distance
- Problems on Trains
- Odd Man Out
- Numbers and Ages
- Pipes and Cisterns
- Time and Work Partnership
- Ratio and Proportion
- Simple Interest
- Probability
- Averages
- Problems on L.C.M and H.C.F
- Problems on Numbers
- Compound Interest
- Volumes Profit and Loss
- Races and Games
- Mixtures and Allegations
- Boats and Streams
- Permutations and Combinations
- Simplification and Approximation

## Science

- Natural Products and Drugs
- Nuclear Chemistry
- Chemical Kinetics and Thermodynamics
- Organic reaction mechanism and Stereochemistry
- Organometallic compounds, Bioinorganic chemistry, and Polymers
- <https://www.freshersnow.com/syllabus/>
- Electrochemistry
- Analytical Chemistry and Instrumental methods

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- Poisons and Pesticides
- Quantum Chemistry

## General Awareness

- Indian History
- Indian Culture & Heritage
- Current Events – National & International
- Indian Polity
- Indian Constitution
- Science & Technology
- Indian Geography
- IT & Space etc
- Indian Economy

## English

- Antonyms
- Synonyms
- Idioms & Phrases
- Vocabulary
- Fill in the Blanks
- One Word Substitution
- Comprehension
- Tenses
- Transformation of Sentences
- Active & Passive Voice
- Direct & Indirect Speech