Dear Aspirants,

This is step-by-step user guide for **QUALEXE**...!

We understand that you are practicing hard for your Exam Preparation.

QUALEXE is a strategically crafted tool to crack different Government Exams.

At **QUALEXE**, we offer,

Latest Updates – Get

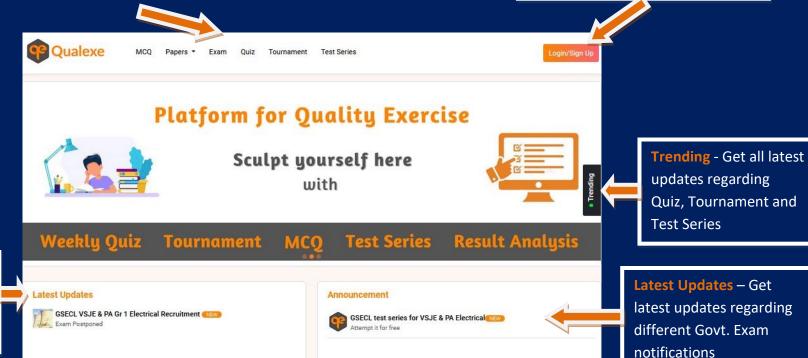
different Govt. Exam

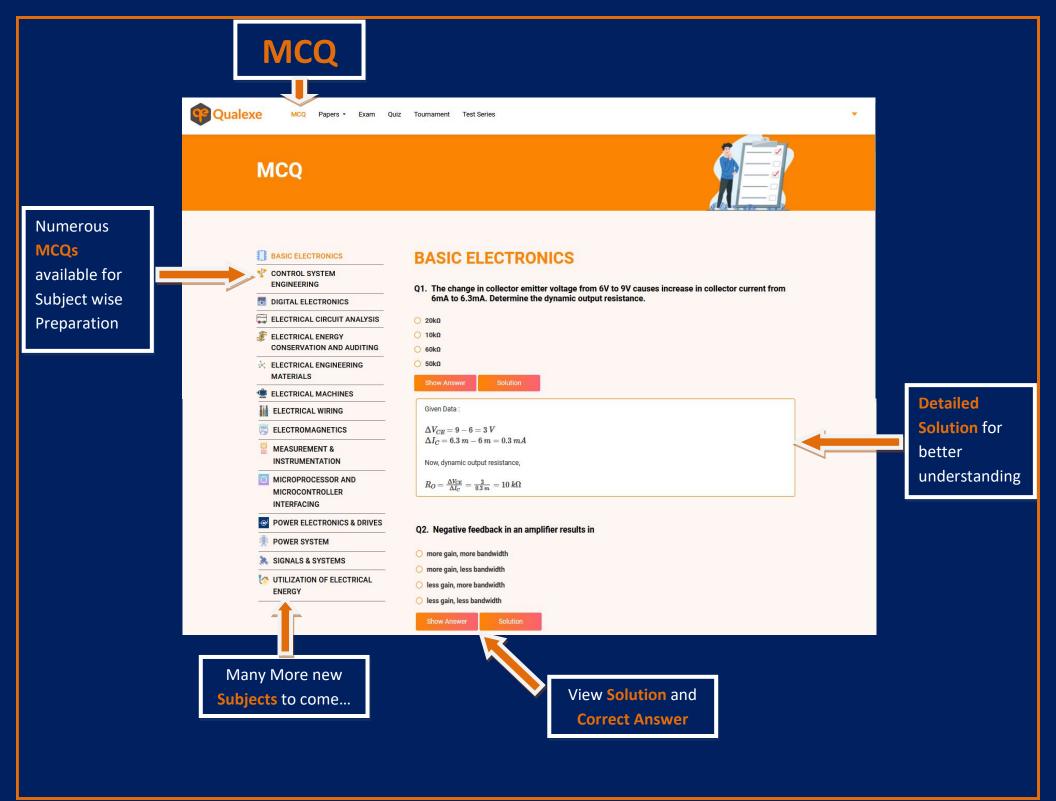
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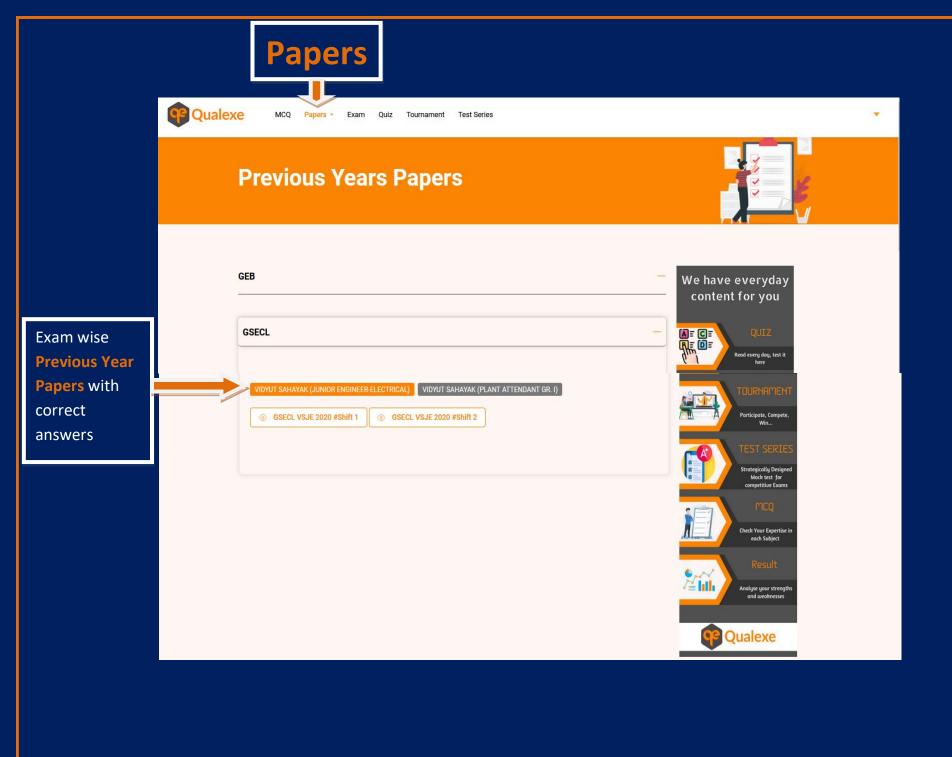
latest updates regarding

- MCQs For Subject specific Practice.
- Papers Pervious year papers for different government exams.
- Exams All relevant information for different exams.
- Quiz Weekly Quizzes for regular practice.
- Tournament Compete with other aspirants and win exciting prizes.
- **Test Series** Witness the Exam giving experience with Exam specific tests

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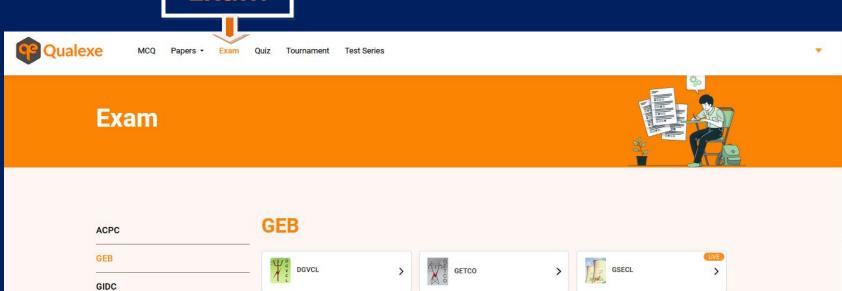
MGVCL

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MC



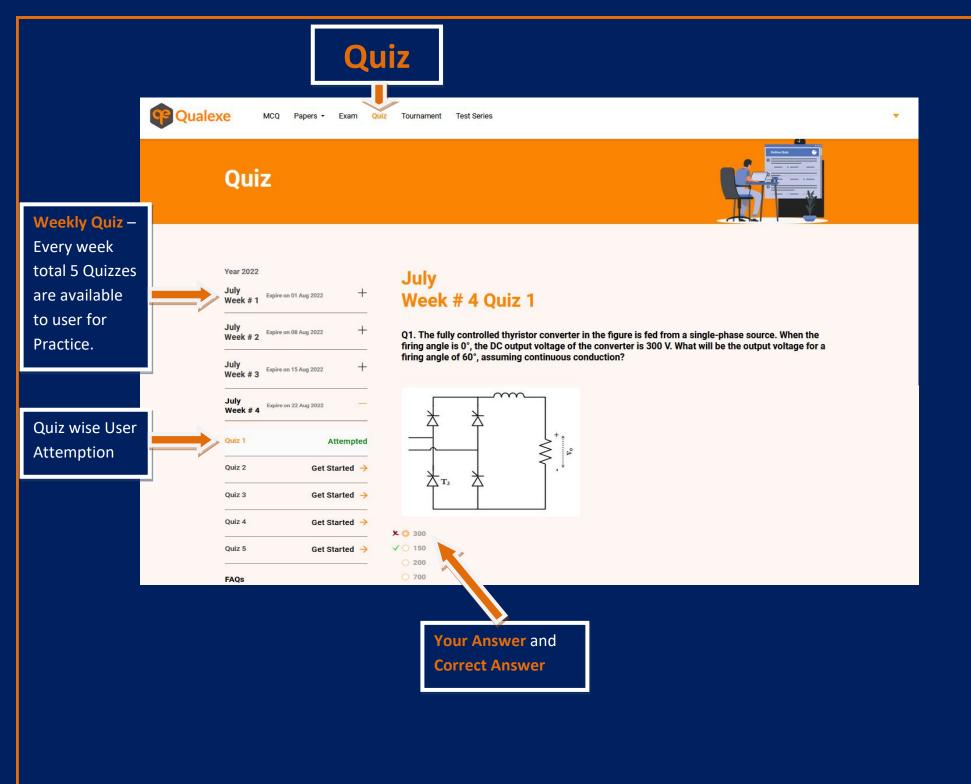
For Different Examination Bodies –

PGVCL

UGVCL

>

Get Latest Exam Notifications, Exam Specific Test Series, Tournaments, Quizzes and many more...



Tournament



MCQ

apers •

Exam

uiz

Tourname

Test Series

Login/Sign Up

Tournament



Monthly Tournaments

Mark its Start and End date in your Calendar.



Tournament

Round #1 and Round #2

RESULTS

Results will be declared on...

Last day of each month at 11:59:59 pm

Winner will get Exciting Gift



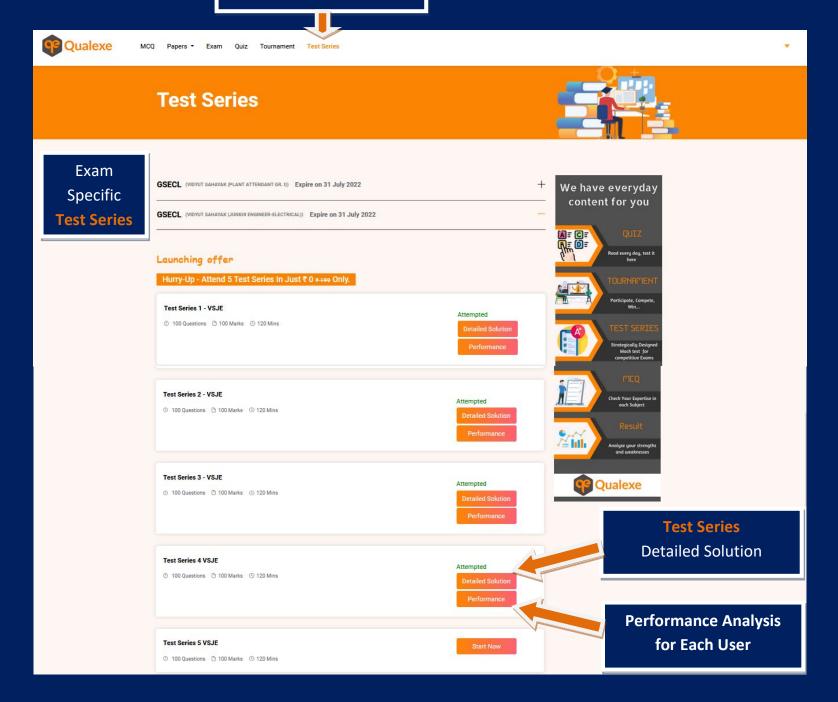
Winners

Every month Top 3 rankers of Tournament will get Gift from

QUALEXE

Tournament FAQs

Test Series



Visit our Website: www.qualexe.com

Dear Aspirants,

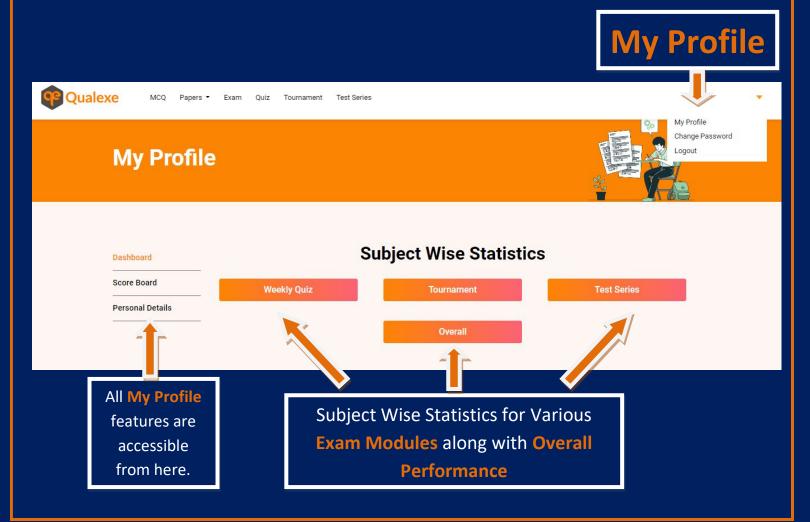
Have you visited My Profile section on QUALEXE...!

It is the Best feature of **QUALEXE** and a powerful tool for Detailed and Subject wise Performance analysis, which will help to achieve your **Targeted Score**.

All Features of My Profile Section is freely available to all Registered Users.

At QUALEXE – In My Profile section, you can explore,

- Dashboard To access different examination modules.
- Score Board For Individual Score for all attempted Quizzes, Tournaments and Test Series.
- Personal Details User's details.
- Subject Wise Statistics For Subject Wise Performance Analysis of user in different exam modules.
- Leader board Compare your Test Series scores with other users and get your performance rank.
- Performance Summary Comparative Performance Analysis for Test Series with Rank, Accuracy and Score.



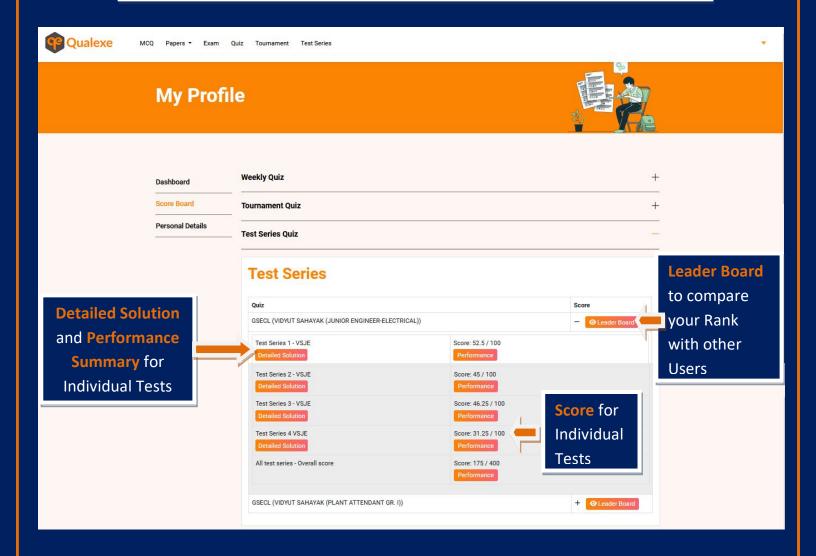
(1) Subject Wise Statistics for Test Series



Such Subject Wise Statistics are also available for Quiz, Tournament and Overall.

Visit our Website: www.qualexe.com

(2) Score Board for Test Series



Such Score Board is available for Quiz and Tournament also.

Visit our Website: www.qualexe.com

(3) Detailed Solution for Test Series

Correct Answer and your Answer

Test Series 1 - VSJE

Q1. When the rotor of a 3-phase induction motor is completely blocked, the slip is equal to______

0 0

× 0 0.3

0 0.5

√ ○ 1

Solution

For blocked rotor put $N_r=0$ in $s=rac{N_s-N_r}{N_s}\implies s=1$

Q2. A 50 W electric light bulb is connected to a 200 V supply. Determine (a) the current flowing in the bulb and (b) the resistance of the bulb.

O 0.5 A and 400 Ω

 \checkmark 0 0.25 A and 800 Ω

 \bigcirc 0.5 A and 800 Ω

O 0.25 A and 400 Ω

Solution

Given data:

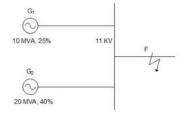
P = 50 W, V = 200 V

Bulb resistance $R=rac{V^2}{P}=rac{(200)^2}{50}=800~\Omega$

Current flowing in the bulb $I=rac{V}{R}=rac{200}{800}=0.25\,A$

Detailed
Solution for
better
understanding

Q3. Fig. shows the single-line diagram of a power system. The % reactance value of the 11kV generators is calculated by taking their ratings as base values. Calculate the short-circuit MVA if a 3-phase fault occurs at the beginning of the feeder. Choose base MVA as 20 MVA.



○ 130 MVA

🗴 🔘 45 MVA

180 MVA

√ ○ 90 MVA

Solution

 \Rightarrow System base -20MVA

Reactance for Generator 1, $G_1 = j0.25 imes rac{20}{10} = j0.5~pu$

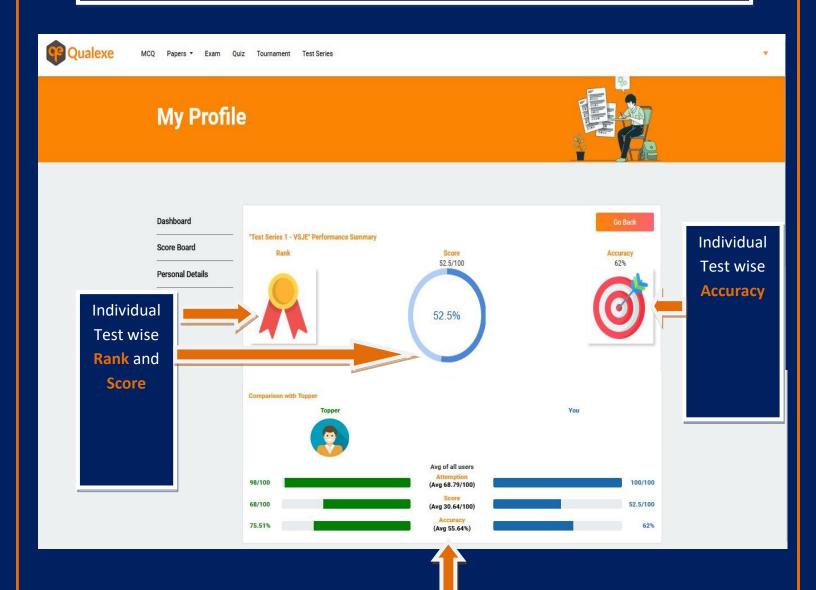
Reactance for Generator 2, $G_2=j0.40 imes rac{20}{20}=j0.4~pu$

⇒ These two Generators are connected in parallels.

 \implies Resultant Reactance $X=j0.5 \parallel j0.4=j0.22~pu$

 $\therefore MVA_{sc} = \frac{MVA_{base}}{X} = \frac{20}{0.22} = 90.90 \ MVA$

(4) Performance Summary for Test Series



Your Comparative Analysis with Topper will help you to focus on Target Score

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