

ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව

රාජ්‍ය හා පළාත් රාජ්‍ය සේවා කාර්මික නිලධාරීන් (සිවිල්/ යාන්ත්‍රික) සඳහා පැවැත්වෙන ප්‍රායෝගික පරීක්ෂණය - 2021 (2022)

ලිඛිත ප්‍රායෝගික පරීක්ෂණය 2022 පෙබරවාරි මස සිට පැවැත්වීමට නියමිතය. ඒ සඳහා ලිඛිත විභාගය සමත් රාජ්‍ය හා පළාත් රාජ්‍ය සේවා කාර්මික නිලධාරීන්ගෙන් අයදුම්පත් කැඳවනු ලැබේ.

2019 ලිඛිත විභාගය සමත් අයදුම්කරුවන් වෙත ප්‍රායෝගික පරීක්ෂණයට අදාළ අයදුම්පත හා විෂය නිර්දේශය තැපැල් මගින් යවා ඇත. ප්‍රායෝගික පරීක්ෂණයට පෙනී සිටීමට සුදුසුකම් ලබා ඇති අනෙකුත් අයදුම්කරුවන් සඳහා වන අයදුම්පත හා විෂය නිර්දේශය ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුවේ නිල වෙබ් අඩවියෙන් (www.doenets.lk) බාගත කරගැනීමට පහසුකම් සලසා ඇත.

මෙම පරීක්ෂණය පැරණි හා නව යන විෂය නිර්දේශ යටතේ පැවැත්වෙන අතර අයදුම්පතේ සඳහන් විෂය නිර්දේශය පසුව වෙනස් කිරීමට ඉඩදෙනු නොලැබේ.

අයදුම්පත් භාරගන්නා අවසාන දිනය 2022 ජනවාරි මස 31 දින වේ. සම්පූර්ණ කරන ලද අයදුම්පත් එදිනට පෙර ලියාපදිංචි තැපෑලෙන් "විභාග කොමසාරිස් ජනරාල්, ආයතනික විභාග සංවිධාන ශාඛාව, ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව, නැ.පෙ. 1503, කොළඹ" යන ලිපිනයට යොමු කළ යුතු අතර අයදුම්පත් බහාලූ කවරයේ වම්පස ඉහළ කෙළවරේ "රාජ්‍ය හා පළාත් රාජ්‍ය සේවා කාර්මික නිලධාරීන් (සිවිල්/ යාන්ත්‍රික) සඳහා පැවැත්වෙන ප්‍රායෝගික පරීක්ෂණය - 2021 (2022) " යනුවෙන් සඳහන් කළ යුතුය.

එල්.එම්.ඩී. ධර්මසේන
විභාග කොමසාරිස් ජනරාල්

ආයතනික විභාග සංවිධාන ශාඛාව,
ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව,
පැලවත්ත, බත්තරමුල්ල.

இலங்கைப் பரீட்சைத் திணைக்களம்

அரச மற்றும் மாகாண அரசசேவை தொழில்நுட்ப அலுவலகர்களுக்காக
(சிவில்/எந்திரவியல்) நடாத்தப்படும் செயன்முறைப் பரீட்சை 2021 (2022)

மேற்குறித்த பிரயோகப் பரீட்சை 2022 பெப்ரவரி மாதம் தொடக்கம் நடாத்துவதற்கு தீர்மானிக்கப்பட்டுள்ளது. அது தொடர்பாக எழுத்து பரீட்சையில் சித்தியடைந்த அரச மற்றும் மாகாணசேவை தொழில்நுட்ப அலுவலர்கள் விண்ணப்பிக்கமுடியும்.

2019 எழுத்து மூலப்பரீட்சையில் சித்தியடைந்த விண்ணப்பதாரிகளுக்கு மூலம் பிரயோகப் பரீட்சைக்குரிய விண்ணப்பப்படிவம் மற்றும் பாடத்திட்டம் என்பன தபால் மூலம் அனுப்பிவைக்கப்பட்டுள்ளது. பிரயோகப் பரீட்சைக்குத் தோற்றுவதற்கு தகைமையுடைய ஏனைய அனைத்து விண்ணப்பதாரிகளுக்கும் விண்ணப்பப்படிவம் மற்றும் பாடத்திட்டம் இலங்கைப் பரீட்சைத்திணைக்களத்தின் உத்தியோகபூர்வ இணையத்தளத்தில் (www.doenest.lk) பதிவிறக்கம் செய்வதற்கான வசதிகள் மேற்கொள்ளப்பட்டுள்ளது.

இந்தப் பரீட்சை பழைய மற்றும் புதிய பாடத்திட்டத்தின் கீழ் நடாத்தப்படுவதுடன் விண்ணப்பப்படிவத்தில் குறிப்பிடப்பட்டுள்ள பாடத்திட்டத்தை பின்னர் மாற்றுவதற்கு இடமளிக்கப்படமாட்டாது.

விண்ணப்பப்படிவங்கள் ஏற்றுக்கொள்ளப்படும் இறுதித்தினம் 2022 ஜனவரி மாதம் 31 ஆம் திகதியாகும். பூரணப்படுத்தப்பட்ட விண்ணப்பப்படிவங்கள் அத்தினத்திற்கு முன்னர் பதிவுத்தபாலில் “பரீட்சை ஆணையாளர் நாயகம், நிறுவனம்சார் பரீட்சைகள் ஒழுங்கமைப்புக் கிளை, இலங்கைப் பரீட்சைத் திணைக்களம், தபால் பெட்டி இலக்கம் 1503, கொழும்பு” என்ற முகவரிக்கு அனுப்பி வைப்பதுடன் விண்ணப்பப்படிவம் அனுப்பும் தபால் உறையின் இடதுபக்க மேல் மூலையில் “அரச மற்றும் மாகாண அரசசேவை தொழில்நுட்ப அலுவலகர்களுக்காக (சிவில்/எந்திரவியல்) நடாத்தப்படும் எழுத்துப் பரீட்சை 2021 (2022)” எனக் குறிப்பிடவும்.

எல்.எம்.டி. தர்மசேன
பரீட்சை ஆணையாளர் நாயகம்

நிறுவனம்சார் பரீட்சைகள் ஒழுங்கமைப்புக் கிளை,
இலங்கைப் பரீட்சைத் திணைக்களம்,
பெலவத்த, பத்தரமுல்ல.

DEPARTMENT OF EXAMINATIONS - SRI LANKA

Practical Test for Technical Officers (Civil/Mechanical) in the Public Service and Provincial Public Service - 2021 (2022)

The above practical test will be held from February 2022 onwards. Applications are hereby called from the Technical Officers in the Public and Provincial Public Services who have passed the written examination.

The application and syllabus have been dispatched to the candidates qualified from the written examination held in 2019. Other qualified candidates can download the application and syllabus from the official website (www.doenets.lk) of the Department of Examinations - Sri Lanka.

This test will be held under new and old syllabuses, and the candidates will not be allowed to change the syllabus mentioned in the application.

The closing date of applications is January 31, 2022. Perfected applications should be sent by registered post to reach the “Commissioner General of Examinations, Department of Examinations - Sri Lanka, P.O. Box 1503, Colombo” on or before the closing date of applications. The words “**Practical Test for Technical Officers (Civil/Mechanical) in the Public Service and Provincial Public Service – 2021 (2022)**” should be marked clearly on the top left hand corner of the envelope enclosing the application.

L.M.D. Dharmasena

Commissioner General of Examinations

Institutional Examinations Organization Branch,
Department of Examinations - Sri Lanka,
Pelawatta, Battaramulla.



රාජ්‍ය හා පළාත් රාජ්‍ය සේවා කාර්මික නිලධාරීන් (සිවිල්/යාන්ත්‍රික) සඳහා පවත්වනු ලබන ලිඛිත විභාගය - 2010 (2019) ප්‍රායෝගික පරීක්ෂණය සඳහා අයදුම්පත

*මාධ්‍ය	*විභාගය	*විෂය නිර්දේශය
සිංහල - 2 <input type="checkbox"/>	1 වන විභාගය - 1 <input type="checkbox"/>	පැරණි - 1 <input type="checkbox"/>
දෙමළ - 3 <input type="checkbox"/>	2 වන විභාගය - 2 <input type="checkbox"/>	නව - 2 <input type="checkbox"/>
ඉංග්‍රීසි - 4 <input type="checkbox"/>	3 වන විභාගය - 3 <input type="checkbox"/>	

*(අදාළ අංකය කොටුව තුළ ලියන්න.)

දිනමිණ, තිනකරණ හා ඩේලි නිවුස් පුවත්පත්වල 2019.02.01 දින පළ කරන ලද නිවේදනය අනුව පවත්වන ලද උත්තර විභාගයෙහි මැනීම හා මට්ටම් ගැනීම ප්‍රායෝගික පරීක්ෂණය පැරණි හා නව විෂය නිර්දේශ යටතේ ඉදිරියේදී පැවැත්වීමට නියමිතය. ඒ අනුව ප්‍රායෝගික පරීක්ෂණය සඳහා ඉදිරිපත් වීමට අපේක්ෂා කරන අයදුම්කරුවන් විභාග 03ට අදාළ පැරණි හා නව විෂය නිර්දේශ අධ්‍යයනය කර ප්‍රායෝගික පරීක්ෂණය සඳහා පෙනීසිටීමට කැමති විෂය නිර්දේශය තෝරාගෙන ආයතන ප්‍රධානියා මගින් අයදුම්පත් යොමු කළ යුතුය. අයදුම්කරුවන් විසින් තෝරාගන්නා ලද විෂය නිර්දේශය පසුව වෙනස් කිරීමට ඉඩ දෙනු නොලැබේ. අයදුම්පත් 2022 ජනවාරි මස 31 වැනි දිනට පෙර "විභාග කොමසාරිස් ජනරාල්, ආයතනික විභාග සංවිධාන ශාඛාව, ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව, තැ.පෙ. 1503, කොළඹ." යන ලිපිනයට යොමු කළ යුතු අතර අයදුම්පත් බහාලූ කවරයේ වම්පස ඉහළ කෙළවරේ "රාජ්‍ය හා පළාත් රාජ්‍ය සේවා කාර්මික නිලධාරීන් (සිවිල්/ යාන්ත්‍රික) සඳහා පැවැත්වෙන ප්‍රායෝගික පරීක්ෂණය - 2021 (2022) " යනුවෙන් සඳහන් කළ යුතුය.

- සම්පූර්ණ නම :-
- පෞද්ගලික ලිපිනය :-
- ජාතික හැඳුනුම්පත් අංකය :-
- ස්ත්‍රී/පුරුෂ භාවය :- පුරුෂ - 0, ස්ත්‍රී 1 (අදාළ අංකය කොටුව තුළ ලියන්න)
- ජංගම දුරකථන අංකය :-
- විද්‍යුත් තැපැල් ලිපිනය :-
- ලිඛිත විභාගය සමත් ව වර්ෂය හා විභාග අංකය :-

* (සැ.යු. I කරුණාකර පැරණි / නව විෂය නිර්දේශ පරීක්ෂාකර බලා ඔබ ඉදිරිපත් වන විෂය නිර්දේශය තෝරා අදාළ අංකය කොටුව තුළ ලියන්න. ලේඛනයේ Current Syllabus යනු පැරණි නිර්දේශය හා Proposed Syllabus යනු නව නිර්දේශය බව කාරුණිකව සලකන්න. අයදුම්පතේ සඳහන් විෂය නිර්දේශය පසුව වෙනස් කිරීමට ඉඩදෙනු නොලැබේ.

II ඉහත 01 හා 02 විස්තර ඉංග්‍රීසි කැපිටල් අකුරෙන් පුරවන්න.)

08. විභාග ගාස්තු ගෙවීම පිළිබඳ තොරතුරු :-

ගෙවූ මුදල : රු. 1200/-

තැපැල් කාර්යාලය :

ලදුපත් අංකය :

දිනය :

ලදුපත එක් දාරයකින් මෙහි අලවන්න.
(පිටපතක් ළඟ තබා ගැනීම සුදුසුය.)

09. අයදුම්කරුගේ ප්‍රකාශය :-

ඉහත සඳහන් තොරතුරු සියල්ල සත්‍ය බව ද ප්‍රායෝගික පරීක්ෂණයට ඉදිරිපත් වීම සඳහා සුදුසුකම් සපුරා ඇති බව ද නිර්දේශය යටතේ ප්‍රායෝගික පරීක්ෂණයට ඉදිරිපත් වීම සඳහා මනාපය පළ කරන බව ද යම් අසත්‍ය තොරතුරක් සපයා තිබේ නම් මෙම අයදුම්පත ප්‍රතික්ෂේප කරනු ලැබීමට එකඟ වන බව ද මෙයින් ප්‍රකාශ කර සිටිමි.

දිනය :

.....

අයදුම්කරුගේ අත්සන

10. ආයතන ප්‍රධානියාගේ සහතිකය :

උක්ත නම් සඳහන් අයදුම්කරු මෙම ආයතනයෙහි සේවය කරන බව ද ප්‍රතිඵල ලේඛනය අනුව ප්‍රායෝගික පරීක්ෂණයට ඉදිරිපත් වීම සඳහා සුදුසුකම් සපුරා ඇති බව ද මෙහි දක්වා ඇති විභාග අංකය හා විභාග වර්ෂය නිවැරදි බව ද සහතික කරමි.

දිනය :

.....

ආයතන ප්‍රධානියාගේ අත්සන

(ආයතන ප්‍රධානියාගේ නිල මුද්‍රාව)

For office use

**Written Examination for the Technical Officers (Civil/ Mechanical) in
Public and Provincial Public Service -2010 (2019)
Application for Practical Test**

*Medium		*Examination		*Syllabus
Sinhala -2	<input type="checkbox"/>	1 st Examination – 1	<input type="checkbox"/>	Old – 1 <input type="checkbox"/>
Tamil – 3	<input type="checkbox"/>	2 nd Examination – 2	<input type="checkbox"/>	New – 2 <input type="checkbox"/>
English – 4	<input type="checkbox"/>	3 rd Examination – 3	<input type="checkbox"/>	

*(Write the applicable number in the box)

The practical test in surveying and leveling for old and new syllabuses of the above examination held as per the paper advertisement published in Dinamina, Thinakaran and Daily News on 01.02.2019 is scheduled to be held in due course. The applicants wish to appear for the practical test should submit applications through the head of the institution having learnt the old and new syllabuses of 03 examinations and selecting preferred syllabus for the practical test. Applicants are not permitted to change the selected syllabus later. Applications should be sent to the **“Commissioner General of Examinations, Institutional Examinations Organization Branch, Department of Examinations, Sri Lanka, P.O. Box 1503, Colombo” before 31st January 2022**. The top left hand corner of the envelope containing the application should be mentioned **“Practical Test for Technical Officers (Civil/ Mechanical) in Public and Provincial Public Service – 2021 (2022)”**.

1. Name in Full:-
2. Private Address:-
3. National Identity Card No.:-
4. Male / Female:- Male -0, Female – 1 (write correct number in the box)
5. Mobile Phone Number:-
6. Email Address:-
7. The year in which the examination has passed and index number:-

*(N.B. I - Please look into the old/ new syllabuses and write the correct number of the preferred syllabus in the box. The Current Syllabus mentioned in the text should be considered as the Old Syllabus and the Proposed Syllabus should be considered as the New Syllabus. It is not permitted to change the syllabus selected in the application later.

II, Please fill above 01 and 02 in ENGLISH BLOCK LETTERS.

8. Details of examination fee paid:-
Amount paid : Rs.1200/-
Post Office:

Affix one border of the receipt here.
(It is advised to keep a copy of the receipt.)

9. Declaration of the applicant:

I hereby declare that the foregoing details provided by me are true and I have obtained the eligibility to appear for the practical test and declare consent to appear for the practical test under syllabus and I will be subjected to the rejection of my application if false information have been submitted.

Date:

.....

Signature of the applicant

10. Certification of the Head of the Institution:

I hereby certify that the above name mentioned applicant is serving in this institution and has fulfilled the qualifications to appear for the practical test as per the result sheet and further certify that the index number and the year of examination mentioned herein are correct.

Date

.....

Signature of the Head of the Institution

(Official stamp of the Head of the Institution)

GTO/சிவில்
2019/(2022)
பிரயோகம்

அலுவலக உபயோகத்திற்காக

அரசு மற்றும் மாகாண அரசுசேவை தொழில்நுட்ப அலுவலகர்களுக்காக (சிவில்/எந்திரவியல்)
நடாத்தப்படும் எழுத்துப் பரீட்சை 2010 (2019)

பிரயோகப் பரீட்சையின் திருத்தப்பட்ட பாடத்திட்டம் தொடர்பான தெரிவினைக் குறிப்பிடல்

*மொழி	*பரீட்சை	*பாடத்திட்டம்
சிங்களம் - 2	1 ஆவது பரீட்சை - 1	பழைய - 1
தமிழ் - 3	2 ஆவது பரீட்சை - 2	புதிய - 2
ஆங்கிலம் - 4	3 ஆவது பரீட்சை - 3	

*(உரிய இலக்கத்தினை கூட்டினுள் எழுதவும்)

தினமின, தினகரன் மற்றும் டெய்லி நியூஸ் போன்ற பத்திரிகைகளில் 2019.02.01 ஆம் திகதி பிரசுரிக்கப்பட்டதற்கமைய நடாத்தப்பட்ட குறித்த பரீட்சையின் மதிப்பீடும் மட்டமாக்கலும் பிரயோக தெரிவுப் பரீட்சை பழைய மற்றும் புதிய பாடத்திட்டத்தின் கீழ் நடாத்துவதற்கு தீர்மானிக்கப்பட்டுள்ளது. அதற்கமைய பிரயோக தெரிவுப் பரீட்சை தொடர்பாக விண்ணப்பிக்கும் விண்ணப்பதாரிகள் 03 பரீட்சைகளுக்குமான பழைய மற்றும் புதிய பாடத்திட்டத்தை கவனத்தில் கொண்டு தோற்றுவதற்கு விருப்பமான பாடத்திட்டத்தை தெரிவு செய்து திணைக்களத் தலைவரினூடாக விண்ணப்பப்படிவத்தினை முன்வைக்க வேண்டும். விண்ணப்பப்பத்திரங்களின் மூலம் தேர்ந்து எடுக்கப்படும் பாடத்திட்டம் பின்னர் மாற்றுவதற்கு இடமளிக்கப்படமாட்டாது. விண்ணப்பப்படிவங்கள் 2022 ஜனவரி மாதம் 31 ஆம் திகதிக்கு முன்னர் (பரீட்சை ஆணையாளர் நாயகம், நிறுவனம்சார் பரீட்சைகள் ஒழுங்கமைப்புக் கிளை, இலங்கைப் பரீட்சைத் திணைக்களம், தபால் பெட்டி இல.1503, கொழும்பு) என்ற முகவரிக்கு அனுப்பி வைப்பதுடன் விண்ணப்பப்படிவம் அனுப்பும் தபால் உறையின் இடதுபக்க மேல் மூலையில் [அரசு மற்றும் மாகாண அரசுசேவை தொழில்நுட்ப அலுவலகர்களுக்காக (சிவில்/எந்திரவியல்) நடாத்தப்படும் எழுத்துப் பரீட்சை 2021 (2022)] எனக் குறிப்பிடவும்.

01. முழுப் பெயர் :-
02. தனிப்பட்ட முகவரி :-
03. தேசிய அடையாள அட்டை இலக்கம் :-
04. பால் ஆண்/பெண் :- ஆண் - 0, பெண் - 1 (உரிய கூட்டினுள் இலக்கத்தை இடவும்)
05. தொலைபேசி இலக்கம் :-
06. மின்னஞ்சல் முகவரி :-
07. எழுத்துமூலப் பரீட்சை சித்தியடைந்த வருடம் மற்றும் பரீட்சை சுட்டெண் :-

*(மு.கு. I தயவுசெய்து பழைய / புதிய பாடத்திட்டத்தினை பரீட்சித்து நீங்கள் விண்ணப்பிக்கும் பாடத்திட்டத்தினை தெரிவு செய்து உரிய கூட்டினுள் எழுதவும். அட்டவணையில் Current Syllabus பழைய பாடத்திட்டம் மற்றும் Proposed Syllabus என்பது புதிய பாடத்திட்டம் என்பதனை நிரப்புவதற்கு தயவுசெய்து தெரிந்து கொள்ளவும். விண்ணப்ப படிவத்தில் குறிப்பிடப்பட்டுள்ள பாடத்திட்டம் பின்னர் மாற்றுவதற்கு இடமளிக்கப்பட மாட்டாது.

II மேலே குறிப்பிட்ட 1 ஆம் 2 ஆம் தகவல்களை ஆங்கில பெரிய எழுத்தில் நிரப்பவும்)

08. பரீட்சை கட்டணம் செலுத்தியது தொடர்பான தகவல் :-

செலுத்திய பணம் :- ரூபா 1200/-
அஞ்சல் அலுவலகம் :-
பற்றுச்சீட்டு இலக்கம் :-
திகதி :-

பற்றுச் சீட்டை இங்கே ஒட்டவும்

(பிரதியென்றை உங்கள் கைவசம் வைத்துக் கொள்க)

09. விண்ணப்பதாரியின் உறுதியுரை :-

மேற்குறிப்பிட்டுள்ள தகவல்கள் அனைத்தும் உண்மையானதாகவும் பிரயோகப்பரீட்சைக்கு விண்ணப்பிப்பதற்கு தகைமைகள் உள்ளது எனவும் சான்றுப்படுத்தலின் கீழ் பிரயோகப் பரீட்சைக்கு விண்ணப்பிப்பதற்கான தெரிவினைக் குறிப்பிடுவதுடன் பொய்யான தகவல் வழங்கியிருப்பின் இந்த விண்ணப்பப்படிவத்தை நிராகரிப்பதற்கு இணங்குகிறேன் என்பதனையும் இத்தால் மூலம் உறுதிப்படுத்துகிறேன்.

திகதி :-.....

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(விண்ணப்பதாரியின் கையொப்பம்)

10. திணைக்களத் தலைவரின் சான்றுரை :-

மேற் குறிப்பிட்ட பெயருடைய விண்ணப்பதாரி இந்தத் திணைக்களத்தில் சேவையாற்றுகிறார் எனவும் பெறுபேற்று அட்டவணைக்கேற்ப பிரயோகப் பரீட்சைக்கு விண்ணப்பிப்பதற்கு தகைமையுடையவர் எனவும் இதில் குறிப்பிட்ட பரீட்சை சுட்டெண் மற்றும் பரீட்சை வருடம் என்பன சரியானவை எனவும் சான்றுப்படுத்துகிறேன்.

திகதி :-

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(திணைக்களத் தலைவரின் கையொப்பம்)

(திணைக்களத் தலைவரின் பதவி முத்திரை)

**DEPARTMENTAL EXAMINATION FOR
S.L.T.S. OFFICERS (CIVIL) / (MECHANICAL) IN PROVINCIAL PUBLIC
SERVICE FIRST AND SECOND EXAMINATIONS.**

SYLLABUS

<u>Current Syllabus</u>	<u>Proposed Syllabus</u>
<p><u>First Examination</u></p> <p>1.3 <u>Surveying and leveling (Lower Paper)</u> The subject will be <u>confined to chain surveying leveling and the use of Road Tracer, Abney Level and Dumpy Level.</u></p> <p><u>Chain Surveying</u></p> <p>Instruments used in chain surveying, ranging out straight lines on uniform ground and over ridges and hollows, measurement of distances with chain or steel bands on level and sloping ground. Method of obtaining horizontal distance on sloping ground principal source of error and their corrections, method of fixing points in relation to a survey line by means of offsets and ties. Method of booking survey lines details, plotting such as fences and boundaries, roads and railways, buildings of various kinds and land. Special problems such as setting out a right angle, dropping a perpendicular from a point on to a chain line, chaining past and inaccessible area, chaining past obstacles, finding distance across river surveying from side of river, etc.</p> <p><u>Leveling</u></p> <p>This shall comprise all leveling with the exclusion of precise leveling and include the following :- The essential elements of construction of Engineer's level and staff, and the methods of using them, the temporary adjustment of the level computing the levels by the "Rice and Fall" and "Instrument Height" methods, various errors and their corrections taking of longitudinal and cross sections, contouring, taking out quantities from plan; leveling problems and devices. <u>Abney level</u> – The principals of operations and use of the instrument there will be three papers as follows:</p> <p>(a) Set paper – surveying and leveling (3 hours) (b) Field work and plotting – chain survey (1 day) (c) Field work and plotting – levels etc. (1 day)</p>	<p><u>First Examination</u></p> <p>1.3 <u>Surveying and leveling (Lower Paper)</u> The subject will be confined to chain surveying and leveling. Practical use of chain, tapes, hand clinometers and Engineer's Level.</p> <p><u>Chain Surveying</u></p> <p>Instruments used in chain surveying, ranging out straight lines on uniform ground and over ridges and hollows, measurement of distances with chain or steel bands on level and sloping ground. Method of obtaining horizontal distance on sloping ground principal source of error and their corrections, method of fixing points in relation to a survey line by means of offsets and ties. Method of booking survey lines details, plotting such as fences and boundaries, roads and railways, buildings of various kinds and land. Special problems such as setting out a right angle, dropping a perpendicular from a point on to a chain line, chaining past and inaccessible area, chaining past obstacles, finding distance across river surveying from side of river, etc.</p> <p><u>Leveling</u></p> <p>This shall comprise all leveling with the exclusion of precise leveling and include the following :- The essential elements of construction of Engineer's level and staff, and the methods of using them, the temporary adjustment of the level computing the levels by the "Rice and Fall" and "Instrument Height" methods, various errors and their corrections taking of longitudinal and cross sections, contouring, taking out quantities from plan; leveling problems and devices. Engineer's level – The principals of operations and use of the instrument there will be three papers as follows:</p> <p>(a) Set paper – surveying and leveling (3 hours) (b) Field work and plotting – chain survey (1 day) (c) Field work and plotting – levels etc. (1 day)</p>

<u>Current Syllabus</u>	<u>Proposed Syllabus</u>
<p data-bbox="211 317 462 351"><u>Second Examination</u></p> <p data-bbox="211 396 713 430"><u>2.3 Surveying and leveling (Higher paper)</u></p> <p data-bbox="211 464 838 532">Higher paper as in 1.3 with the addition of the following :-</p> <p data-bbox="203 532 838 714">Surveying, traversing with Theodolite, elementary principles of the construction of the Theodolite and its use running a traverse, correction of angles, plotting of a closed traverse and correction of closing error by graphical means. The candidates will be tested in</p> <ul style="list-style-type: none"> <li data-bbox="290 714 807 748">(a) Set paper 3 hours – Surveying and Leveling <li data-bbox="290 748 838 805">(b) Field work and plotting – Surveying (1 day) and Leveling (1 day) 	<p data-bbox="862 328 1105 362"><u>Second Examination</u></p> <p data-bbox="862 408 1356 442"><u>2.3 Surveying and leveling (Higher paper)</u></p> <p data-bbox="862 487 1497 555">Higher paper as in 1.3 with the addition of the following :-</p> <p data-bbox="854 555 1497 725">Surveying, traversing with Theodolite, elementary principles of the construction of the Theodolite and its use running a traverse, correction of angles, plotting of a closed traverse and correction of closing error by graphical means. The candidates will be tested in</p> <ul style="list-style-type: none"> <li data-bbox="940 725 1458 759">(a) Set paper 3 hours – Surveying and Leveling <li data-bbox="940 759 1489 827">(b) Field work and plotting – Surveying (1 day) and Leveling (1 day)

<u>Current Syllabus</u>	<u>Proposed Syllabus</u>
<p><u>Third Examination</u></p> <p>3.7 (a) <u>Surveying and leveling (one paper of 3 hours)</u></p> <p>The instruments used chain surveying, ranging out straight lines on all kinds of ground. Measurement of distances with chain <u>or steel hands</u> on level or sloping ground. Method of obtaining Horizontal distances on sloping ground.</p> <p>Principal sources of error and their correction. Method of fixing points in relation to a survey line by <u>name</u> of offsets and ties. Method of booking survey lines and details.</p> <p>Plotting survey. Scales and conventional method of representing various natural and artificial features. Special problems such as setting out a right angle, dropping a perpendicular from a point on to a chain line. Chaining past an inaccessible area, chaining past obstacles, finding distance across rivers, surveying from side of a river, <u>use of road tracer</u>. Etc.</p> <p>The construction and adjustment of the theodolite. <u>Transverse</u> surveys with Theodolite. Graphical method of plotting survey and graphical correction for closing error. Co-ordinates method of plotting <u>transverse</u> survey. Calculation of latitudes, departures and co-ordinates. Adjustment of angular errors. Adjustment of latitudes and departures. Elementary Tachometry.</p> <p><u>Dumpy, 'Y', Abney Level</u> – their construction and adjustment. Computing level by the "Rise and Fall" and "Instrument Height" methods. Sources of error in leveling including curvature. Refraction and other natural factors affecting accuracy. Correction of errors permissible error in leveling. Taking of longitudinal and cross sections. Contouring and taking out quantities from contoured plan. Laying out building areas from contoured leveling problems and devices. Setting out engineering works e.g. by triangulation from a carefully measured base line, curve ranging, setting out buildings, sewers, water mains, roads, profile, tunnels, etc.</p> <p>(b) <u>Surveying and leveling</u> 11 A field test of two days on practical surveying using the Theodolite and <u>Dumpy, 'Y' levels</u> and plotting.</p>	<p><u>Third Examination</u></p> <p>3.7 (a) <u>Surveying and leveling (one paper of 3 hours)</u></p> <p>The instruments used chain surveying, ranging out straight lines on all kinds of ground. Measurement of distances with chain on level or sloping ground. Method of obtaining Horizontal distances on sloping ground.</p> <p>Principal sources of error and their correction. Method of fixing points in relation to a survey line by means of offsets and ties. Method of booking survey lines and details.</p> <p>Plotting survey. Scales and conventional method of representing various natural and artificial features. Special problems such as setting out a right angle, dropping a perpendicular from a point on to a chain line. Chaining past an inaccessible area, chaining past obstacles, finding distance across rivers, surveying from side of a river.</p> <p>The construction and adjustment of the theodolite. Transverse survey with Theodolite. Graphical method of plotting survey and graphical correction for closing error. Co-ordinates method of plotting transverse survey. Calculation of latitudes, departures and co-ordinates. Adjustment of angular errors. Adjustment of latitudes and departures. Elementary Tachometry.</p> <p>Engineer's Level – their construction and adjustment. Computing level by the "Rise and Fall" and "Instrument Height" methods. Sources of error in leveling including curvature, refraction and other natural factors affecting accuracy. Correction of errors permissible error in leveling. Taking of longitudinal and cross sections. Contouring and taking out quantities from contoured plan. Laying out building areas from contoured leveling problems and devices. Setting out engineering works e.g. by triangulation from a carefully measured base line, curve ranging, setting out buildings, sewers, water mains, roads, profile, tunnels, etc.</p> <p>(b) <u>Surveying and leveling</u> 11 A field test of two days on practical surveying using the Theodolite, Engineer's Level /Dumpy Level and plotting.</p>