

RTI REQUEST DETAILS**Registration No. :** CSLTD/R/E/25/00087**Date of Receipt :** 13/12/2025**Type of Receipt :** Online Receipt**Language of Request :** English**Name :****Gender :****Address :****State :****Country :****Phone No. :****Mobile No. :****Email :****Status(Rural/Urban) :****Education Status :****Is Requester Below Poverty Line ? :****Citizenship Status :****Amount Paid :****Mode of Payment** Payment Gateway**Does it concern the life or Liberty of a Person ? :****Request Pertains to :**

No(Normal)

With reference of VACANCY NOTIFICATION NO. CSL/P&A/RECTT/CANSRU

PERMA/WORKMEN/07/2025/1 DATED 01/03/2025 CSL ANDAMAN CONDUCT OMR AND DESCRIPTIVE EXAMINATION FOR THE POST OF JUNIOR TECHNICAL ASSISTANT (ELECTRICAL) AND RESULT OF THE EXAM PUBLISHED ON 10 th OF OCTOBER) SELECTED FOR THE POST OF JTA (ELECTRICAL)

Information Sought :

Qus 1. how many candidates will participate the written exam (centre wise details)

qus 2. Give all the marksheet and answersheet of all the candidates including descriptive exam of the jta electrical exam

qus 3. give all the qualification certificate of the selected person Mr. vijay kumar k with reg no.50833540 ,includes experience,diploma certificate etc that essential and desirable for the post of Jta electrical

Print

Save

Close



Sub: Information Under Right to Information Act

Dear Sir,

1. Please refer your RTI request no. CSLTD/R/E/25/00087 dated December 13, 2025. The reply to the information sought under the said request relating to the selection for the post of Junior Technical Assistant (Electrical) in CANSRU vide Vacancy Notification Ref No. CSL/P&A/RECTT/CANSRU PERMA/WORKMEN/07/2025/1 dated March 01, 2025, is given below:

- (i) how many candidates will participate the written exam (centre wise details)

Reply

The Objective Type Test and the Descriptive Type Test for selection to the above referred Post was conducted on September 15, 2025 (Monday) at three centres and the details of attendance in these three centres are given below:

Sl. No.	Test Centres	Attendance (Nos.)	
		Objective Type Test	Descriptive Type Test
1.	Marine Dockyard, Marine Jetty PO, Near Marine Dockyard, Sri Vijaya Puram – 744101.	6	6
2.	CSL-Kolkata Ship Repair Unit (CKSRU), Gate no 9, Netaji Subhas Dry Dock, Circular Garden Reach Road, Kolkata – 700024.	6	6
3.	METI Hall, Cochin Shipyard Limited, PO Bag No. 1653, Perumanoor P O, Kochi – 682015.	2	2
Total		14	14

- (ii) Give all the marksheet and answersheet of all the candidates including descriptive exam of the jta electrical exam

Reply

The marks secured by the RTI Requester and the selected candidate in the tests conducted for selection to the above referred Post is given below:

Reg. No.	Marks secured		
	Objective Type Test	Descriptive Type Test	Total
50833540	48.00	19.00	67.00
50832553*	38.00	8.50	46.50

*RTI Requester.



Please note that the candidates would be able to view their marks through candidate self-login available at CSL website and the link for the same is <https://apps.cochinshipyard.in:446/mcr/MCRCandidateIndex.jsp>.

The marks secured by non-selected candidates is personal information related to a third party, the disclosure of which has no relationship to any public activity or interest. The disclosure of such information is exempt pursuant to Section 8(1)(j) of the Right to Information Act, 2005 and hence, cannot be furnished.

The answer sheet of Objective and Descriptive Type Tests of the RTI Requester is placed at **Annexure I**. Please note that the answer sheets of all other candidates are personal information related to a third party, the disclosure of which has no relationship to any public activity or interest. The disclosure of such information is exempt pursuant to Section 8(1)(j) of the Right to Information Act, 2005 and hence, cannot be furnished.

- (iii) give all the qualification certificate of the selected person
includes experience, diploma certificate etc that essential and desirable for the post of Jta electrical

Reply

The information sought pertains to personal information of a third party, the disclosure of which has no relationship to any public activity or interest. The disclosure of such information is exempt pursuant to Section 8(1)(j) of the Right to Information Act, 2005 and hence, cannot be furnished.

2. If you are not satisfied with the above reply, you may prefer an appeal within 30 days from the date of receipt of this letter to Shri Jose V J, Director (Finance) & Appellate Authority, Cochin Shipyard Limited, Administrative Building, Cochin Shipyard Premises, Perumanoor, Kochi – 682015.

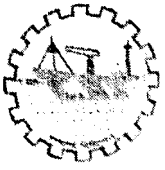
Thanking You,



Yours faithfully,

Syamkamal N

Company Secretary & CPIO



कोचीन शिपयार्ड लिमिटेड / COCHIN SHIPYARD LIMITED

भारत सरकार की श्रेणी - 1 मिनिरातन कंपनी / A Government of India Category-I Miniratna Company
पत्तन, पोत परिवहन और जलमार्ग मंत्रालय / Ministry of Ports, Shipping and Waterways

सीएसएल- ए.एन पोत मरम्मत यूनिट (सीएनएसआरयू), श्री विजय पुरम - 744 101
CSL-AN Ship Repair Unit (CANSRU), Sri Vijaya Puram - 744 101

OBJECTIVE TYPE WRITTEN TEST TO THE POST OF JUNIOR TECHNICAL ASSISTANT (ELECTRICAL) FOR CANSRU

Date: 15/09/2025

38
69

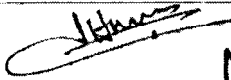
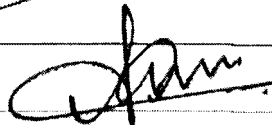
DURATION OF THE TEST : 75 Minutes
MAXIMUM MARKS : 70 Marks

DO NOT OPEN THIS QUESTION PAPER-CUM-ANSWER BOOKLET UNTIL ASKED TO DO SO

GENERAL INSTRUCTIONS

1. ANSWER ALL QUESTIONS. There shall be no negative marks.
2. Answers are to be marked using ✓ mark against the most appropriate option among the options provided in the Question Booklet using BALL POINT PEN.
3. Rough work, if any, is to be done on space provided in the Question Booklet only. No separate sheet will be provided for rough work.
4. Calculators, Mobile, Electronic items etc., are not permitted inside the examination hall.
5. Candidates seeking, receiving and /or giving assistance during the test will be disqualified.
6. The right to exclude any question (s) from final evaluation rests with CSL.
7. Do not seek any clarification on any item in the Question Booklet. Use your judgment.

Please fill in the following details using ball point pen.

Name of Candidate	VISHNUK
Registration No.	50832553
Name of Post	Junior technical assistant (electrical)
Signature of candidate	
Signature of invigilator	

THIS QUESTION PAPER-CUM-ANSWER BOOKLET SHOULD BE HANDED OVER TO THE INVIGILATOR ON COMPLETION OF THE TEST

PHASE I (PART I)

OBJECTIVE TYPE TEST FOR THE POST OF
JUNIOR TECHNICAL ASSISTANT (ELECTRICAL) FOR CANSRU

I. GENERAL KNOWLEDGE

1. Which planet is known as the Red Planet?
 - a) Venus
 - b) Mars
 - c) Jupiter
 - d) France

2. What is the capital city of Japan?
 - a) Beijing
 - b) Seoul
 - c) Tokyo
 - d) Bangkok

3. Who wrote the play "Romeo and Juliet"?
 - a) Charles Dickens
 - b) Mark Twain
 - c) William Shakespeare
 - d) Leo Tolstoy

4. In which year did the Titanic sink?
 - a) 1910
 - b) 1912
 - c) 1914
 - d) 1918

5. What is the most widely spoken language in the world?

- a) Spanish
- b) English
- c) Mandarin
- d) Hindi

f

II. REASONING

6. If "PEN" is coded as "QFO", how is "PAD" coded?

- a) QBE
- b) QAC
- c) QAE
- d) QAD

↙

7. What comes next in the series: 3, 6, 11, 18, 27, ...?

- a) 38
- b) 40
- c) 42
- d) 45

↑

8. If North becomes South and South becomes East, what will East become?

- a) North
- b) South
- c) West
- d) East

↘

9. A man is twice as old as his son. After 10 years, he will be 1.5 times as old as his son.

How old is the son now?

- a) 10 years
- b) 15 years

✗

c) 20 years

d) 25 years

10. If today is Monday, what day will it be 45 days from now?

a) Wednesday

b) Sunday

c) Saturday

d) Friday

III. QUANTITATIVE APTITUDE

11. A train travels 120 km in 2 hours. What is its speed in km/h?

a) 50 km/h

b) 60 km/h

c) 70 km/h

d) 80 km/h

12. If a shirt is sold for ₹800 after a discount of 20%, what was its original price?

a) ₹1000

b) ₹960

c) ₹800

d) ₹840

13. A sum of ₹2000 is to be divided among A, B, and C in the ratio 2:3:5. How much will B get?

a) ₹600

b) ₹800

c) ₹1000

d) ₹1200

14. The perimeter of a rectangle is 50 cm. If the length is 15 cm, what is the width?

a) 10 cm

b) 12.5 cm

c) 15 cm

d) 17.5 cm

15. If the cost price of an item is ₹150 and the selling price is ₹180, what is the profit percentage?

a) 15%

b) 20%

c) 25%

d) 30%

IV. GENERAL ENGLISH

16. She is _____ to start her own business.

a) eager

b) eagerly

c) eagerness

d) eagernessfully

17. The book was so interesting that I could not put it _____.

a) down

b) up

c) off

d) away

18. He is a man of great _____.

a) knowledge

- b) knowing
- c) knows
- d) knowledgable

19. Choose the word that best fits the sentence: "The weather was so _____ that we decided to stay indoors."

- a) beautiful
- b) inclement
- c) lovely
- d) pleasant

20. Find the synonym of the word "happy":

- a) Sad
- b) Joyful
- c) Angry
- d) Displeased

V. SUBJECT BASED

21. In energy management of ships, the primary goal is:

- a) Reducing lighting load
- b) Minimizing fuel consumption and emissions
- c) Reducing switchgear size
- d) Improving cable insulation

22. The no-load current of a transformer is about:

- a) 50-60% of full-load current
- b) 20-30% of full-load current
- c) 2-5% of full-load current
- d) 10-15% of full-load current

23. Current transformers should never be:

- a) Open-circuited on secondary
- b) Short-circuited on secondary
- c) Both
- d) None

24. In DC machines, interpoles are used to:

- a) Reduce armature reaction
- b) Increase flux
- c) Decrease losses
- d) Improve efficiency

25. In a SCR, holding current is:

- a) More than latching current
- b) Less than latching current
- c) Equal to latching current
- d) None

26. The form factor for sine wave is:

- a) 1.11
- b) 1.0
- c) 0.707
- d) 2.0

27. The efficiency of a 200 kVA transformer is maximum at 100 kW load, unity PF. At full load and unity PF, efficiency will be:

- a) Higher
- b) Lower

- c) Equal
d) Cannot be predicted
28. In induction motors, deep-bar rotor is used to:
- a) Reduce core losses
 - b) Improve PF
 - c) Reduce starting current
 - d) Reduce crawling
29. In single-phase full bridge rectifier, the ripple frequency is:
- a) f
 - b) $2f$
 - c) $4f$
 - d) $f/2$
30. The regulation of alternator is negative when:
- a) Load PF is leading
 - b) Load PF is lagging
 - c) Load is resistive
 - d) None
31. IGBT combines the features of:
- a) BJT and MOSFET
 - b) SCR and MOSFET
 - c) BJT and SCR
 - d) Diode and MOSFET
32. The main purpose of FACTS devices (like STATCOM) is to:
- a) Improve steady state stability
 - b) Reduce transmission losses

- c) Increase frequency
- d) Provide backup protection
33. The unit of reluctance is:
- a) AT/Wb
 - b) Wb/AT
 - c) AT/m
 - d) Wb
34. In class-B commutation of SCR, the commutating capacitor is:
- a) pre-charged
 - b) Charged by load current
 - c) Charged by gate current
 - d) Not charged
35. The typical insulation resistance for shipboard cables should not fall below:
- a) 0.5 M Ω
 - b) 1 M Ω
 - c) 2 M Ω
 - d) 10 M Ω
36. The bridge used for measurement of dielectric loss angle is:
- a) Schering bridge
 - b) Maxwell's bridge
 - c) Wien bridge
 - d) Anderson bridge
37. Which international convention governs ship electrical safety?
- a) MARPOL
 - b) SOLAS

- c) STCW
d) ISPS
38. During generator paralleling onboard, incorrect phase sequence leads to:
- a) Hunting
 - b) High circulating current
 - c) Reverse power trip
 - d) Instant blackout
39. Fire in ship electrical cables is minimized by using:
- a) XLPE insulation
 - b) EPR insulation
 - c) LSZH cables
 - d) Rubber sheathed cables
40. For marine cables, the insulation resistance decreases primarily with:
- a) Increase in load current
 - b) Increase in cable length
 - c) Decrease in temperature
 - d) Frequency variation
41. The most common type of circuit breaker in shipboard HT systems is:
- a) Oil circuit breaker
 - b) SF₆ circuit breaker
 - c) Air-blast circuit breaker
 - d) Vacuum circuit breaker
42. A Zener diode in ship battery charger is used for:
- a) Rectification
 - b) Voltage regulation

- c) Current limiting
 - d) Power factor correction
43. Which transistor configuration offers the highest input impedance?
- a) Common base
 - b) Common emitter
 - c) Common collector
 - d) Cascade
44. According to IEC 60092, minimum insulation resistance of new shipboard 440 V circuits (measured at 500 V DC) should be at least:
- a) 0.5 M Ω
 - b) 1 M Ω
 - c) 2 M Ω
 - d) 10 M Ω
45. In SCADA for ship power management, RTUs are primarily responsible for:
- a) Data acquisition and communication
 - b) User interface
 - c) Centralized control
 - d) Alarm generation only
46. The firing angle control of a thyristor is used to regulate:
- a) Current
 - b) Voltage & power
 - c) Resistance
 - d) Torque
47. An inclinometer in ships measures:
- a) Pitch & roll angle

- b) Speed
 - c) Frequency
 - d) Power
48. Main material of marine cable sheathing is:
- a) Lead
 - b) Tinned copper braid
 - c) Aluminium
 - d) Galvanized steel
49. In magnetic circuits of ship alternators, leakage flux is reduced by:
- a) Laminating the core
 - b) Using higher frequency
 - c) Increasing winding resistance
 - d) Using solid steel
50. The main reason for isolation transformers in ship power systems is:
- a) Efficiency improvement
 - b) Protection from hull earth faults
 - c) Voltage regulation
 - d) Load sharing
51. A single-phase transformer has resistance and reactance of 0.2 p.u and 0.6 p.u respectively. Its p.u voltage regulation at 0.8 p.f lagging would be
- a) 0.52
 - b) 0.42
 - c) 0.62
 - d) 0.36

52. Auto reclosing is used in case of

- a) Lightning arrester
- b) Bulk oil C.B
- c) Air blast C.B
- d) Minimum oil C.B

53. Kirchoff's current law is based on the law of

- a) Conservation of energy
- b) Conservation of charge
- c) Conservation of momentum
- d) Conservation of mass

54. The name plate of a 3-phase induction motor reads as

V = 400 V hp = 5 f = 50 Hz

I = 15 A Con - Δ N = 54- rpm

The number of poles for which stator winding is wound

- a) 10
- b) 12
- c) 14
- d) 16

55. In relation to synchronous machines, which one is false?

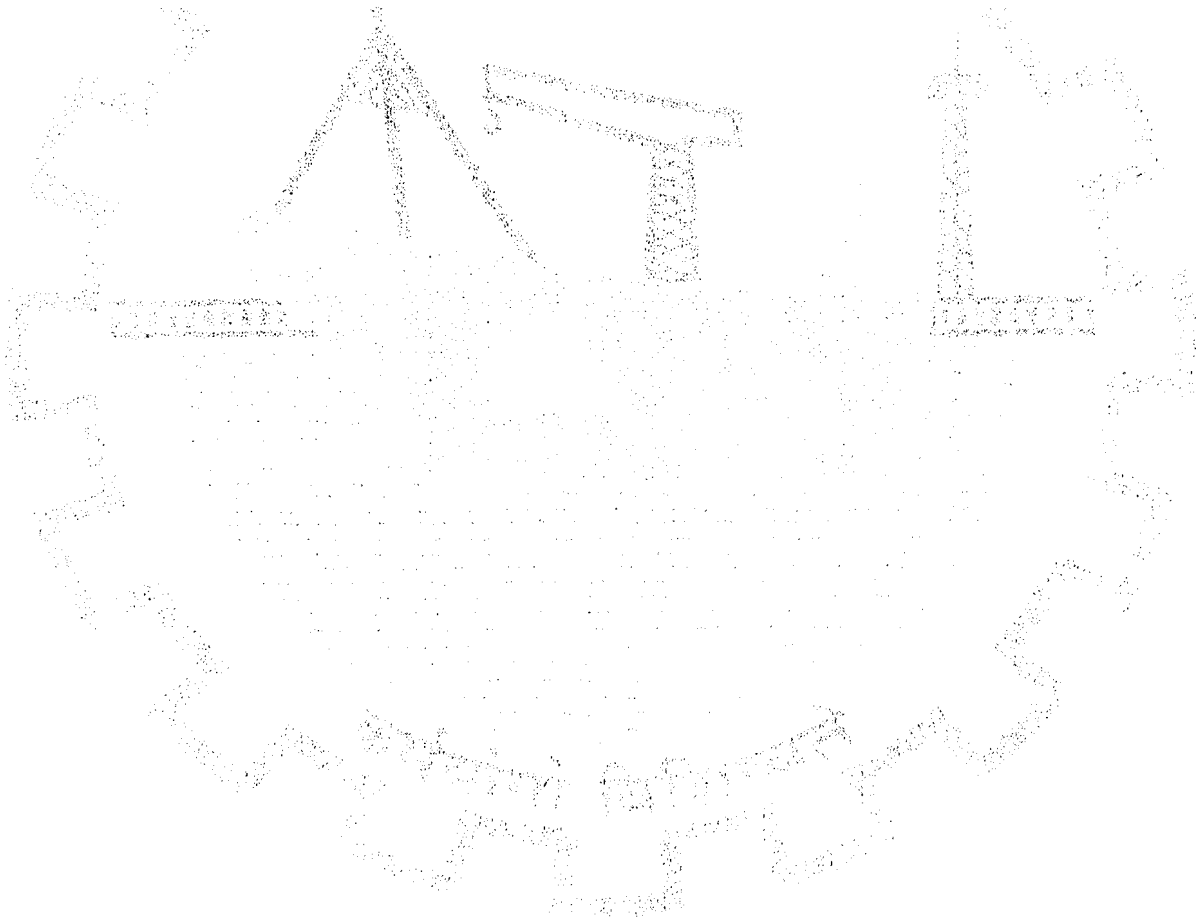
- a) In salient pole machines, the direct-axis synchronous reactance is greater than the quadrature-axis synchronous reactance.
- b) The damper bars help the synchronous motor self-start.
- c) Short-circuit ratio is the ratio of the field current required to produce the rated voltage on open circuit to the rated armature current.

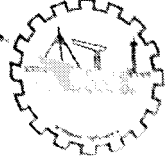
- d) The V-curve of a synchronous motor represents the variation in the armature current with field excitation, at given output power.
56. Two wattmeters, which are connected to measure the total power on a three-phase system supplying a balanced load, read 10.5 kW and - 2.5 kW, respectively. The total power and the power factor, respectively, are
- a) 13.0 kW, 0.334
 - b) 13.0 kW, 0.684
 - c) 8.0 kW, 0.52
 - d) 8.0 kW, 0.334
57. The Q-meter works on the principle of
- a) mutual inductance
 - b) self-inductance
 - c) series resonance
 - d) parallel resonance
58. The armature of a dc machine is laminated to reduce
- a) Copper loss
 - b) Eddy Current loss
 - c) Friction loss
 - d) Windage loss
59. Three resistances of R ohms each are connected in delta. Its equivalent resistances in star connection per phase is
- a) $R/3$ each
 - b) R each
 - c) 3R each
 - d) 3R, R & $R/3$

60. Which of the following Transformers should never have the secondary open circuited while the primary is energized?
- a) Power Transformer
 - b) Potential Transformer
 - c) Current Transformer
 - d) Auto Transformer
61. The crawling in an induction motor is caused by
- a) High loads
 - b) Low supply voltages
 - c) Improper design of machine
 - d) Harmonics developed in the motor
62. Under no load conditions the current in a transmission line is due to
- a) Corona effect
 - b) Capacitance of the line
 - c) Spinning reserve
 - d) Back flow from earth
63. For a distributor design, if the voltage rating is increased by 'n' times, the conductor size reduces to ___ of the original
- a) $1/n$
 - b) $1/n^2$
 - c) $1/n^4$
 - d) $1/2n$
64. The electric heater draws 10A from a 230V line. The resistance of the heater is
- a) 230 Ohms
 - b) 2300 Ohms
 - c) 23 Ohms
 - d) 2.3 Ohms

65. The illumination at a surface due to source of light placed at a distance 'd' from the surface varies
- a) $1/d^2$
 - b) $1/d$
 - c) d
 - d) d^2
66. Power factor is the highest in case of
- a) Sodium vapour lamp
 - b) Mercury vapour lamp
 - c) Incandescent lamp
 - d) Neon lamp
67. In carbon arc welding
- a) Electrode is positive with respect to work in case of dc supply
 - b) Electrode is negative with respect to work in case of dc supply
 - c) Electrode is connected to neutral in case of ac supply
 - d) Electrodes are not required
68. A 4 point starter is used to start and control the speed of a
- a) DC shunt motor with armature resistance control
 - b) DC shunt motor with field weakening control
 - c) DC series motor
 - d) Thyristor controlled dc motor
69. The rated voltage of a 3-phase power system is given as
- a) Rms phase voltage
 - b) Peak phase voltage
 - c) Rms line to line voltage
 - d) Peak line to line voltage

70. Two incandescent light bulbs of 40W and 60W rating are connected in series across the mains, then
- a) The bulbs together consume 100W
 - b) The bulbs together consume 50W
 - c) The 60W bulb glows brighter
 - ✓ d) The 40W bulb glow brighter





कोचीन शिपयार्ड लिमिटेड / COCHIN SHIPYARD LIMITED

भारत सरकार की श्रेणी - 1 मिनिरल कंपनी / A Government of India Category-I Miniratna Company

पत्तन, पोत परिवहन और जलमार्ग मंत्रालय / Ministry of Ports, Shipping and Waterways

(सीएसएल- ए.एन पोत मरम्मत यूनिट (सी.ए.एन.एस.आर.यू), श्री विजय पुरम -744 101

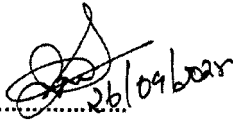
CSL-AN Ship Repair Unit (CANSRU), Sri Vijaya Puram - 744 101

CANDIDATE NO. EL009

Marks Obtained : ^{8½}..... MARKS

Maximum Marks : 30 MARKS

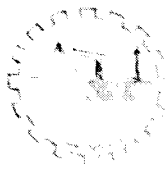
SIGNATURE :


26/09/2021

NAME : SUJITH S

DESIGNATION : MANAGER (ELECTRICAL)

9



कोचीन शिपयार्ड लिमिटेड / COCHIN SHIPYARD LIMITED

भारत सरकार की बेसी - 1 लिमिटेड कंपनी / A Government of India Category I Miniratna Company
एनन पोत परिवहन और जलमार्ग संस्थान / Ministry of Ports, Shipping and Waterways

सीएसएल - ए एन पोत मरम्मत यूनिट (सीएसएल-एन) श्री विजय पुरम - 744 101
CSL-AN Ship Repair Unit (CANSRU), Sri Vijaya Puram - 744 101

DESCRIPTIVE TYPE WRITTEN TEST TO THE POST OF
JUNIOR TECHNICAL ASSISTANT (ELECTRICAL) FOR CANSRU

Date: 12/01/2023

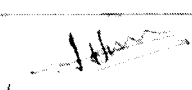

DURATION OF THE TEST : 60 Minutes
MAXIMUM MARKS : 30 Marks

DO NOT OPEN THIS QUESTION PAPER BOOKLET UNTIL ASKED TO DO SO

GENERAL INSTRUCTIONS

1. **ANSWER ALL QUESTIONS.** There shall be no negative marks.
2. **Answers are to be written in the ANSWER SHEETS provide using BALL POINT PEN.**
3. Rough work, if any, is to be done in the ROUGH WORK SHEET provided only.
4. **Calculators, Mobile, Electronic items etc., are not permitted inside the examination hall.**
5. Candidates seeking, receiving and /or giving assistance during the test will be disqualified.
6. The right to exclude any question (s) from final evaluation rests with CSL.
7. Do not seek any clarification on any item in the Question Booklet. Use your judgment.

Please fill in the following details using ball point pen.

Name of Candidate	VISHNUK
Registration No.	50832553
Name of Post	Junior technical assistant (Electrical)
Signature of candidate	
Signature of invigilator	

**THIS QUESTION PAPER BOOKLET SHOULD BE HANDED OVER
TO THE INVIGILATOR ON COMPLETION OF THE TEST**

PHASE II

DESCRIPTIVE TYPE ONLINE TEST
JUNIOR TECHNICAL ASSISTANT (ELECTRICAL)
(TOTAL 30 MARKS)

1. Write short note about the following:

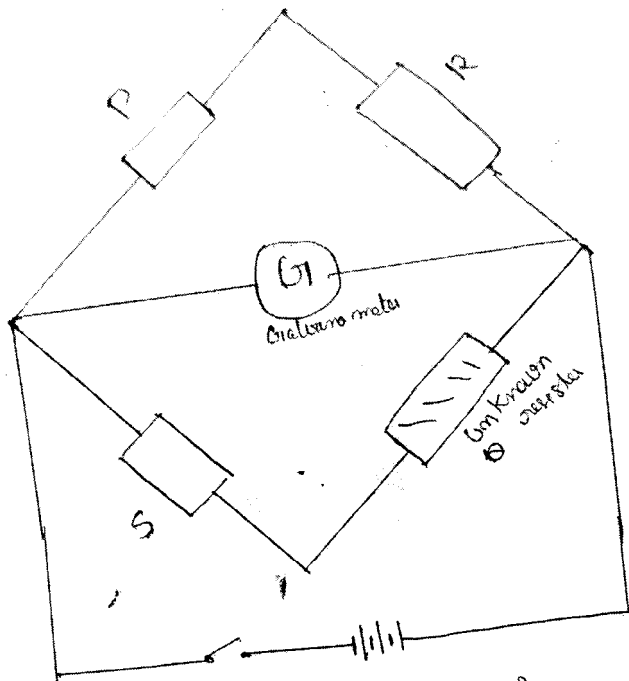
(5 Marks)

a) Difference between Moving coil and Moving iron instruments (5 points minimum)

According to the construction and application instruments are classified in different ways

<u>Moving coil instruments</u>	<u>Moving iron instruments</u>
<ul style="list-style-type: none">works on DC onlyinitially curved scaleeddy current damping usedvertical position use only	<ul style="list-style-type: none">works on both AC and DCuniform scalegravity control & spring controlany position

b) Explain about the Wheatstone Bridge principle (with circuit diagram and equation)



The above fig shows the diagram of a ~~galvanometer~~ wheatstone bridge. It includes a battery source and 3 known resistors and a galvanometer.

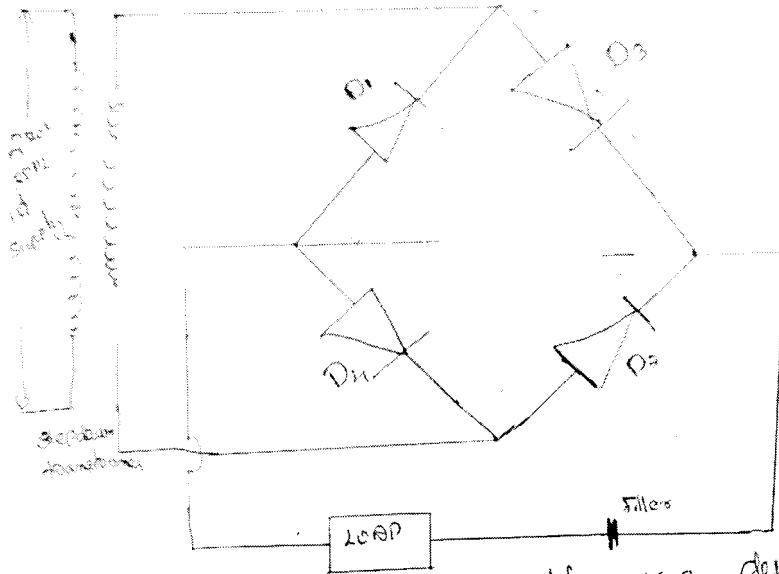
When the ~~galvanometer~~ = 0

deflection ... And the other 3 resistors (P, Q, S) will be known resistors when the circuit is balanced

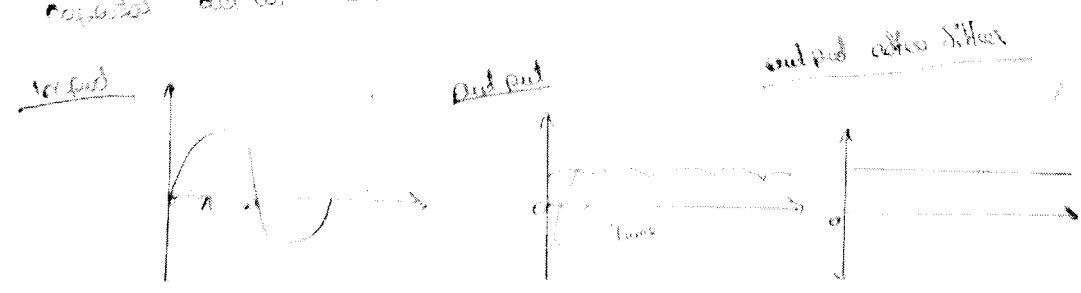
the galvanometer shows null deflection, when the switch is on the battery get flow electron through the circuit and we get a unknown resistor

2. Write short note about the following:

a) Explain about full wave rectifier with circuit diagram and Voltage, Current, Time graph. (3 Marks)



As we know that capacitor is a device which consist of DC. And we know that in DC wave include cycles. So the wave comes through that way. when another cycle come D3 and D4 are in forward bias so it goes through that way. by that way we will get a constant DC and put on the load. To filter the wave form we use a filter on source to the load. capacitor filter block the AC and pass DC. in other words capacitor block the AC and pass DC. in other words capacitor block the AC and pass DC.



b) Short note about internet protocol (IP).

(2 Marks)

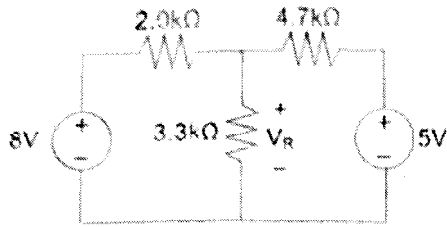
Internet protocol IP

Internet protocol is a set of legal information about the use of internet to avoid piracy etc. IP gives a clear picture to the users internet in other words it is the basic legal terms that describe the flow to use internet safely and legally.

any cyber crime is punishable under IT act that also violates the internet protocol. Simply we can say that internet protocol is a set of instructions and legal guidelines to use internet. it also help to prevent internet piracy

3. Explain about the Superposition theorem.
What's the voltage drop across 3.3Kohm?

(5 Marks)



4. Explain about the step-by-step procedure for the overhauling of Motor or Alternator. What's the minimum megger value for the 500Volt overhauled motor as per IEEE standard.

(5 Marks)

We know that overhauling of a motor or alternator is a stage that lead by a motor or alternator. It is a work of a motor or alternator which depend upon the load current and it leads to insulation failure, over heating and damage of winding etc.

When a motor or alternator pick more current than depends on the load the following things occur

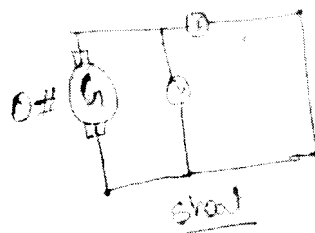
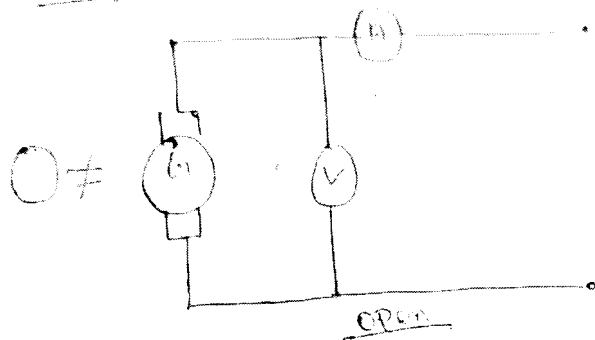
- 1) temperature rises
- 2) it may cause insulation failure
- 3) over current

4) Failure of mechanical parts like bearing

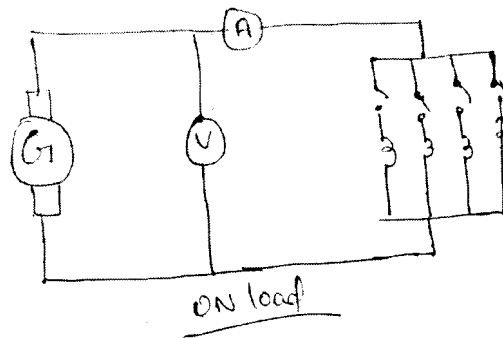
etc etc
All the things that depends upon the load. when load increases current also increases so it leads to over heating and over voltage also

5. Explain the OCC and SCC of synchronous generator with circuit diagram and graph. (5 Marks)

OCC



SCC



Open circuit test and short circuit test are used to determine the ~~load~~ losses of the transformer when it is on load or open. It also helps to determine the efficiency of a generator. To supply to any other generator as to the type of synchronous. We use know that generator convert mechanical energy to electrical energy. So it is need to determine the characteristics of generator like voltage regulation, losses, efficiency etc.

6. Basic principle of circuit breaker. Comparison between VCB and SF6 Circuit Breaker. (5 Marks)

As we know that circuit breaker are the device that make and break the circuit. There are many types of circuit breaker available some of them are RCB, VCB, MCB, MCCB, SF6 circuit breaker etc

VCB

Vacuum circuit breaker the name indicates that here the arc quenching medium is vacuum. when a fault or any short circuit occur it is need to cut off the supply as soon as possible. that is the duty of a circuit breaker. when the time of cut or break the circuit is seen that there are lots of arc is produced by the circuit so it is need to quench the arc. so here we uses vacuum as arc quenching medium

SF6 circuit breaker

As the name indicate Sulfur hexa fluoride is used as a arc quenching medium of ~~so~~ SF6 circuit breaker. sulfur hexa fluoride is a carbon less and oxygen less gas so it is easy to quench the arc. it is used on high power capacity power plant and generally station where the recovery is needed. SF6 CB is the most widely using circuit breaker in power plant and generally station. the arc quenching chamber is filled with SF6 gas