

पावर ट्रॉसमिशन कारपोरेशन ऑफ उत्तराखण्ड लिं

(उत्तराखण्ड सरकार का उपक्रम)

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मानव संसाधन एवं प्रशासनिक विभाग

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दिनांक: २५ .१२.२०२५

विषय: अभियन्ता अधिकारियों की व्यवसायिक परीक्षा भाग—१ के प्रश्न पत्र, उत्तर कुंजी एवं अन्य निर्देशों के सम्बन्ध में।

अधिशासी अभियन्ता (सू०प्रौ०—द्वितीय),

पिटकुल,

देहरादून।

कृपया दिनांक 25.12.2025 को आयोजित व्यवसायिक परीक्षा भाग—१ के प्रश्न पत्र, उक्त प्रश्न पत्र की उत्तर कुंजी एवं उक्त से सम्बन्धित निर्देश इस आशय से संलग्न कर प्रेषित किये जा रहे हैं कि उक्त प्रश्न पत्र, उत्तर कुंजी एवं निर्देशों को कारपोरेशन की वैबसाईट पर एक अलग लिंक के माध्यम से अपलोड करवाना सुनिश्चित करें।

संलग्नक: यथोपरि।

(अनुपम सिंह)

उपमहाप्रबन्धक (अधिष्ठान)

सूचना

अभियन्ता अधिकारियों की व्यवसायिक परीक्षा भाग-1 की उत्तर-कुंजी के सम्बन्ध में दिशा-निर्देश

अभ्यर्थियों को यह सूचित किया जाता है कि यदि उत्तर कुंजियों में दिये गये उत्तरों के सापेक्ष प्रश्न-पत्र के किसी भी प्रश्न पर किसी अभ्यर्थी को कोई आपत्ति दर्ज करानी हो तो वह विलम्बतः दिनांक 26.12.2025 की प्रातः 10:00 बजे तक अपनी आपत्ति साक्ष्य सहित मानव संसाधन विभाग की ई-मेल hr@ptcul.org पर प्रेषित कर सकते हैं।

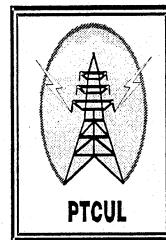
उपरोक्त तिथि एवं समय के उपरान्त प्राप्त होने वाली आपत्तियों का संज्ञान कदाचित नहीं लिया जायेगा।



(अनुपम सिंह)

उपमहाप्रबन्धक (अधिष्ठान)

पावर ट्रॉसमिशन कारपोरेशन ऑफ उत्तराखण्ड लि०



व्यवसायिक परीक्षा भाग-१ (वि० एवं यां०) (वर्ष-२०२५)

अभ्यर्थी का नाम
पदनाम
अनुक्रमांक
हस्ताक्षर

कक्ष पर्यवेक्षक का नाम एवं हस्ताक्षर
1
2
3

अवधि- 1½ घंटा (डेढ़ घंटा)
पूर्णांक - 176 अंक

अभ्यर्थियों के लिए आवश्यक निर्देश तथा जानकारी:-

1. अभ्यर्थी उत्तर देने से पूर्व प्रश्न-पत्र में दिये गये निर्देशों को ध्यानपूर्वक पढ़कर उनका अनुपालन करना सुनिश्चित करेंगे।
2. अभ्यर्थी अपना नाम, पदनाम एवं अनुक्रमांक सही-सही भरेंगे, गलत प्रविष्टि / अंकित करने के लिए अभ्यर्थी स्वयं पूर्णतः उत्तरदायी रहेगा।
3. लिखित परीक्षा 1:30 घण्टे की अवधि की होगी। लिखित परीक्षा का प्रश्न-पत्र 176 अंकों का होगा। प्रश्न-पत्र में कुल 88 बहुकल्पीय प्रश्न होंगे तथा प्रत्येक प्रश्न के उत्तर के चार विकल्प A, B, C तथा D दिये जायेंगे, जिनमें से केवल एक correct/best विकल्प का चुनाव करना है। सभी प्रश्न हल करने हैं।
4. प्रत्येक प्रश्न 02 अंक का होगा, सही उत्तर पर 02 अंक प्रदान किये जायेंगे। ऋणात्मक अंक व्यवस्था लागू नहीं होगी।
5. साक्षात्कार 24 अंकों का होगा, जो कि लिखित परीक्षा के उपरान्त लिया जायेगा।
6. लिखित परीक्षा एवं साक्षात्कार दोनों में संयुक्त रूप से चालीस प्रतिशत (40%) न्यूनतम उत्तीर्णांक होंगे, अर्थात लिखित परीक्षा एवं साक्षात्कार दोनों को मिलाकर 80 अंक प्राप्त करने अनिवार्य हैं।
7. अभ्यर्थी को लिखित परीक्षा में काले अथवा नीले बॉल प्वाईट पेन से ही OMR Sheet पर सही उत्तर वाले गोले को भरना होगा। पेंसिल द्वारा OMR Sheet पर भरा गया गोला मान्य नहीं होगा।
8. प्रश्न में दिये गये चार विकल्पों में से केवल एक correct/best विकल्प का चुनाव कर काले अथवा नीले बॉल प्वाईट पेन से ही OMR Sheet पर सही उत्तर वाले गोले को भरा जाना है। इसके अतिरिक्त उत्तर हेतु विकल्पों में अन्य किसी प्रकार का कोई चिह्न यथा सही, क्रॉस का निशान या अद्वृ गोला इत्यादि नहीं भरना है। प्रश्न-उत्तर में फ्लूयड / सफेदा / ओवरराइटिंग / कटिंग का प्रयोग वर्जित है, जिस कारण उत्तर को गलत माना जायेगा।
9. परीक्षा के दौरान कैलकुलेटर, मोबाईल फोन अथवा किसी भी इलैक्ट्रॉनिक डिवाईस पाये जाने पर परीक्षार्थी को परीक्षा से बंचित कर दिया जायेगा।
10. परीक्षा के दौरान कोई भी अभ्यर्थी किसी भी अन्य अभ्यर्थी के पेपरों से न तो नकल करेगा, न ही अपने पेपरों से नकल करवायेगा, न ही किसी अन्य तरह से अनुचित सहायता देगा, न ही सहायता देने का प्रयास करेगा, न ही सहायता प्राप्त करेगा और न ही प्राप्त करने का प्रयास करेगा।
11. परीक्षा केन्द्र में अनुचित संसाधनों का प्रयोग प्रतिबन्धित है, अनुचित साधनों एवं प्रतिबन्धित सामाग्री का प्रयोग करते हुए पकड़े जाने पर अभ्यर्थी को पर्यवेक्षक की रिपोर्ट के आधार पर अनुत्तीर्ण घोषित कर तीन साल के लिए परीक्षा में बैठने हेतु प्रतिबन्धित कर दिया जायेगा।
12. प्रश्न-पत्र के प्रत्येक पृष्ठ पर अभ्यर्थी अपने हस्ताक्षर करना सुनिश्चित करें तथा परीक्षा के उपरान्त प्रश्न-पत्र को कक्ष पर्यवेक्षक को जमा करेंगे।

Q-1 What is the TSA of PTCUL

- (A) 90% to 92%
- (B) 93% to 95%
- (C) 99 to 100%
- (D) 80 to 90%

Q-2 OPGW is used for

- (A) Earthing of transmission towers only
- (B) Communication only
- (C) Both (A) and (B)
- (D) None of the above.

Q-3 Hysteresis loss is directly proportional to

- (A) f
- (B) f^2
- (C) f^3
- (D) $f^{1.6}$

Q-4 Which equipment is used for protection against lightning

- (A) LA
- (B) LB
- (C) LC
- (D) LD

Q-5 The connected load of a consumer is 2 KW and his maximum demand is 1.5KW. The load factor of the consumer is

- (A) 0.75
- (B) 0.375
- (C) 1.33
- (D) None of the above.

Q-6 SCADA stands for

- (A) Supervisory Control and Data Acquisition
- (B) System Control and Data Acquisition
- (C) Supervisory Control and Digital Accounting System.
- (D) None of the above.

Q-7 The surge impedance of 50 miles long underground cable is 50 ohms. For a 25 miles length it will be

- (A) 25 ohms
- (B) 50 ohms
- (C) 100 ohms
- (D) None of the above.

Q-8 Thin laminations are used in a transformer to reduce

- (A) Eddy current losses
- (B) Hysteresis losses
- (C) Both (A) and (B)
- (D) Copper losses

Q-9 Gas used to provide the phase to ground insulation in GIS substation;

- (A) CO_2 .
- (B) N_2 .
- (C) SF_6
- (D) None of the above.

Q-10 What will be the number of Strands of ACSR Conductor for 4 layer transmission line

- (A) 1
- (B) 7
- (C) 37
- (D) 29

Q-11 If the fault current is 2000 A, the relay setting is 50% and CT ratio is 400:5, then plug setting multiplier will be

- (A) 10
- (B) 15
- (C) 25
- (D) 50

Q-12 Bundling of Conductors in EHV transmission lines

- (A) Increase inductance
- (B) Increase Capacitance
- (C) Decrease inductance
- (D) Decrease Capacitance

Q-13 For a lightly loaded long transmission line receiving end voltage is

- (A) More than sending end voltage
- (B) Less than sending end voltage
- (C) Equal to sending end voltage
- (D) None of the above.

Q-14 If the time of a relay for unity TMS is 10 sec, the time of operation for 0.5 TMS will be

- (A) 20 Secs.
- (B) 5 Secs.
- (C) 10 Secs.
- (D) None of the above

Q-15 Which class of fire involves an electrical equipment

- (A) Class A
- (B) Class D
- (C) Class B
- (D) Class C

Q-16 Corona loss increases with

- (A) Increase in supply frequency and conductor size.
- (B) Increase in supply frequency but reduction in conductor size.
- (C) Decrease in supply frequency and conductor size.
- (D) Decrease in supply frequency but increase in conductor size.

Q-17 Which of the ACSR conductor will have maximum current carrying capacity

- (A) Panther
- (B) Zebra
- (C) Deer
- (D) Moose

Q-18 Earth fault relay uses which of the following sequence currents

- (A) Positive sequence
- (B) Negative sequence
- (C) Zero sequence
- (D) Any of the above

Q-19 What is the maximum transformation capacity of a single transformer in PTCUL

- (A) 240 MVA.
- (B) 500 MVA.
- (C) 315 MVA.
- (D) 160 MVA.

Q-20 Auto transformer can be used instead of two winding transformer

- (A) To save cost of core.
- (B) To save cost of winding.
- (C) Both (A) and (B).
- (D) Cannot be used.

Q-21 Isolator in sub-station is open under _____ condition

- (A) No load
- (B) Full load
- (C) Short circuit fault
- (D) Any of the above

Q-22 A CT is connected in _____ with the line.

- (A) Series
- (B) Parallel
- (C) Not connected
- (D) Both (A) and (B)

Q-23 which is not used for protection of a transformer

- (A) Over current protection
- (B) Differential protection
- (C) REF protection
- (D) Distance protection

Q-24 POSOCO changes its name to

- (A) Grid controller of India Limited.
- (B) Power Grid Controller of India Limited.
- (C) National Grid Controlling Authority.
- (D) Grid Controlling Corporation of India Ltd.

Q-25 Which PTCUL wing takes care of Tariff

- (A) C&R
- (B) C&P
- (C) T&C
- (D) PMU

Q-26 A 3 phase breaker is rated at 2000 MVA, 33 kV its making current will be

- (A) 35 kA
- (B) 49 kA
- (C) 70 kA
- (D) 89 kA

Q-27 Advantages of GIS substation over AIS are

- (A) Compactness.
- (B) Protection from pollution.
- (C) Reduce switching over voltages.
- (D) All of the above.

Q-28 Four identical alternates each are rated for 20 MVA, 11 KV having a subtransient reactance of 16% are working in parallel. The short circuit level of the busbar is

- (A) 500 MVA
- (B) 400 MVA
- (C) 125 MVA
- (D) 100 MVA

Q-29 Transmission transformer are;

- (A) Star-Star
- (B) Star-Delta
- (C) Delta-Star
- (D) Delta-Delta

Q-30 Which test is useful for oil quality assessment

- (A) ABG
- (B) DGA
- (C) DGC
- (D) None of the above

Q-31 Power Transmission lines are transposed to reduce

- (A) Skin effect
- (B) Proximity effect
- (C) Ferranti effect
- (D) Radio interference

Q-32 In a Tap charging transformer, the tappings are provided on;

- (A) Primary winding
- (B) LV winding
- (C) HV winding
- (D) Any of the above

Q-33 PLCC in transmission line is used for;

- (A) Communication only.
- (B) Protection Inter-tripping only.
- (C) Both (A) and (B).
- (D) None of the above.

Q-34 Which type of protection is main protection for transmission lines;

- (A) Differential
- (B) Distance
- (C) Over current.
- (D) Earth Fault.

Q-35 In a transformer, oil is used for

- (A) Cooling
- (B) Insulation
- (C) Both (A) and (B)
- (D) None of the above

Q-36 DC Voltage used for protection in 400 kV substation in PTCUL;

- (A) 110 V
- (B) 220 V
- (C) 132 V
- (D) 200 V

Q-37 Out of many bushings of a power transformer which is smallest in size

- (A) Y phase
- (B) R phase
- (C) B phase
- (D) Neutral

Q-38 Which is not an essential condition for parallel operation of two transformers

- (A) Same Vector Group.
- (B) Same Voltage Ratio.
- (C) Same Percentage Impedance.
- (D) Same Capacity.

Q-39 The buchholz relay protects a transformer from

- (A) All types of internal fault.
- (B) A turn to turn fault only.
- (C) Winding to winding fault only.
- (D) None of the above.

Q-40 Before tendering what is required from UERC

- (A) Funding
- (B) Investment Approval
- (C) Administrative Approval
- (D) Technical Approval

Q-41 On load which equipment can be opened

- (A) Isolator
- (B) Circuit Breaker
- (C) Both (A) and (B)
- (D) None of the above

Q-42 SSL Stands for

- (A) Secure Socket Layer
- (B) Secure Secret Level
- (C) Secure System Level
- (D) Section Security Layer

Q-43 Choose among the following, which is the most common internet protocol

- (A) PPP
- (B) FTP
- (C) TCP/IP
- (D) SMTP

Q-44 Why is a firewall used in a computer

- (A) Monitoring
- (B) Data Transmission
- (C) Authentication
- (D) Security

Q-45 URL Stands for

- (A) Uninterrupted data Locator
- (B) Uninterrupted record Locator
- (C) Uniform record Locator
- (D) Uniform resource Locator

Q-46 The main memory (RAM) of a computer system is

- (A) Non Volatile
- (B) Volatile
- (C) Restricted
- (D) Unrestricted

Q-47 Among the following which is not a data base management software

- (A) MY SQL
- (B) COBOL
- (C) Sybase
- (D) Oracle

Q-48 Computer word size is multiple of bits

- (A) 4 bits
- (B) 10 bits
- (C) 16 bits
- (D) 1024 bits

Q-49 How many days of Child Care Leave a woman employee can avail during her service period

- (A) 765 days
- (B) 730 days
- (C) 365 days
- (D) 735 days

Q-50 After punishment in a particular case a delinquent employee in what duration can place appeal to higher authority

- (A) 30 days
- (B) 45 days
- (C) 60 days
- (D) 90 days

Q-51 How many medical leaves are credited during whole service period of an employee

- (A) 356 days
- (B) 365 days
- (C) 120 days
- (D) None of the above

Q-52 What is a duration for the promotion from the post Superintending Engineer to Chief Engineer according to UPSEB Engineer's Regulation 1970

- (A) 04 years
- (B) 08 years
- (C) 06 years
- (D) None of the above

Q-53 What is not a punishment as per provision of Disciplinary and Appeal Rule 1999

- (A) Dismissal
- (B) Stopping increment with cumulative effect
- (C) Show cause notice
- (D) Removal

Q-54 If an employee recruited in the year 2010 and got only one promotion in the year 2017 with higher pay scale, then he will get his IIInd ACP in the year

- (A) 2019
- (B) 2021
- (C) 2022
- (D) 2026

Q-55 What is the last date for submitting ACR to Reporting Authority by an appraisee

- (A) 30 April
- (B) 05 May
- (C) 10 May
- (D) 25 May

Q-56 The regulatory authority for Electricity Provisions in Uttarakhand is

- (A) IRDA
- (B) TRAI
- (C) CERC
- (D) UERC

Q-57 Date of incorporation of PTCUL is

- (A) 1 June
- (B) 9 June
- (C) 1 May
- (D) 9 November

Q-58 Who among the following is Chairman of PTCUL at present

- (A) Secretary (Energy), GoU
- (B) Principal Secretary (Energy), GoU
- (C) Chief Secretary, GoU
- (D) Secretary (Public Enterprises), GoU

Q-59 For Other State medical treatment, what is required from following

- (A) Certificate by controlling officer
- (B) Reference of Government/Panel Hospital
- (C) Both (A) and (B)
- (D) None of the above

Q-60 Share of an employee in Employees Provident Fund (EPF) is

- (A) 10%
- (B) 8.33%
- (C) 12%
- (D) 3.67%

Q-61 In the month of July how many earned leave is credited to employees earned leave account

- (A) 16 days
- (B) 15 days
- (C) 30 days
- (D) 31 days

Q-62 Which of these punishments is included in major punishment as per the provision of Disciplinary and Appeal Rules 1999

- (A) Suspension
- (B) Dismissal
- (C) Both (A) and (B)
- (D) None of the above

Q-63 According to current pay matrix of PTCUL the pay Scale of Executive Engineer is

- (A) Rs. 37400-67000 (Level-13A of 7th Pay Matrix)
- (B) Rs. 37400-67000 (Level-14 of 7th Pay Matrix)
- (C) Rs. 37400-67000 (Level-13 of 7th Pay Matrix)
- (D) None of the above

Q-64 Amongst which of these regulations, trade unions are governed by

- (A) Society Registration Act 1860
- (B) Trade Union Act 1926
- (C) Industrial Dispute Act 1947
- (D) None of the above

Q-65 What is the percentage of horizontal reservation for women in direct recruitment

- (A) 20%
- (B) 25%
- (C) 30%
- (D) None of the above

Q-66 Selection year is a year between

- (A) 1st April to 31st March
- (B) 1st July to 30th June
- (C) 1st June to 31st May
- (D) None of the above

Q-67 How many earned leave balance is required for providing leave encashment during service

- (A) 60 days
- (B) 30 days
- (C) 90 days
- (D) None of the above

Q-68 The full form of KPI is

- (A) Key Progress Indicator
- (B) Key Performance Indicator
- (C) Key Progress Index
- (D) Key Performance Index

Q-69 Which of the following account types increase by debits in double-entry accounting

- (A) Assets, Expenses, Losses
- (B) Assets, Revenue, Gains
- (C) Expenses, Liabilities, Losses
- (D) Gains, Expenses, Liabilities

Q-70 As per UERC (Term and Condition for determination of Multi year tariff), regulation 2015, Depreciation on Plant and Machinery shall be provided at the rate of

- (A) 3.34%
- (B) 9.50%
- (C) 5.28%
- (D) 6.33%

Q-71 Ram's income Statement showed a loss for the year of Rs. 7500, it was later discovered that repairs to motor vehicles, Rs. 900 had been debited to Motor Vehicles. What was the actual loss for the year

- (A) Rs. 8000
- (B) Rs. 8400
- (C) Rs. 6600
- (D) Rs. 9000

Q-72 Audit fee is a part of

- (A) Work on cost
- (B) Distribution overheads
- (C) Both (A) and (B)
- (D) None of the above

Q-73 While framing estimate for works which is also considered

- (A) VAT
- (B) Sale Tax
- (C) Income Tax
- (D) GST

Q-74 In the income Tax Act 1961 is a certificate which an employer gives to his employees. It certifies the amount of tax deducted but the employer from the salary of the employee.

- (A) Form 16
- (B) Form 12.
- (C) Form 16 A
- (D) Form 26AS

Q-75 Sale of Land is

- (A) Revenue receipt
- (B) Capital receipt
- (C) Capital expenditure
- (D) Revenue expenditure

Q-76 What is RuPay Debit Card

- (A) Domestic debit card
- (B) Introduced by National Payments Corporation of India
- (C) Accepted at all ATMs & PoS machines in India
- (D) All of above

Q-77 Collection from debtors

- (A) Decrease Current ratio
- (B) Increase Current ratio
- (C) Has no effect on Current ratio
- (D) None of the above

Q-78 What is the Maximum Tax exemption Under Section 80C of Income Tax Act, 1961 in old tax regime

- (A) Rs. 2.00 Lakh P.A.
- (B) Rs. 1.50 Lakh P.A.
- (C) Rs. 1.80 Lakh P.A.
- (D) Rs. 2.50 Lakh P.A.

Q-79 When preparing a bank reconciliation statement, if you start with debit balance as per cash book cheques sent to bank but not collected should be

- (A) Added
- (B) Deducted
- (C) Not required to be Adjusted
- (D) None of the above

Q-80 Income Tax is a

- (A) Direct Tax
- (B) Indirect Tax
- (C) Total Tax
- (D) None of the above

Q-81 As per Income Tax Act Tax at source will be deducted @.....from payments by way of rent for use of plant, Machinery or equipment under section....

- (A) 2% 194J
- (B) 10% 194I
- (C) 2% 194I
- (D) 10% 194J

Q-82 What is the full form of EMI

- (A) Ensure Monthly Installment
- (B) Equated Monthly Installment
- (C) Earned Monthly Installment
- (D) Early Monthly Installment

Q-83 As per Accounting Rules pertaining to PTCUL, AG-12 pertains to

- (A) Fixed Assets
- (B) Capital Expenditure in progress
- (C) Investments
- (D) Provision for Depreciation on Fixed Assets

Q-84 Assessment year start on

- (A) 1st October
- (B) 1st April
- (C) 31st March
- (D) 1st January

Q-85 Security deposit is

- (A) Deposited at the time of filling the tender
- (B) Deposited at the time of opening tenders
- (C) Deposited for fair competition
- (D) Deposited by the contractor whose tender is accepted

Q-86 GST TDS provisions will apply where total value of such supply, under a contract, exceed rupees

- (A) 1 lakhs
- (B) 1.5 lakhs
- (C) 2.5 lakhs
- (D) 5 lakhs

Q-87 Which deduction is allowed under the new tax regimes for salaried individuals

- (A) Standard Deduction of ₹75,000
- (B) Standard Deduction of ₹50,000
- (C) Standard Deduction of ₹65,000
- (D) All of the above

Q-88 As per PTCUL ledger Cash Deposit of cash in bank is recorded in

- (A) Debit of Bank Column and Credit of Cash Column
- (B) Debit of Cash Column and Credit of Bank Column
- (C) Debit of Cash Column and also Credit of Cash Column
- (D) Debit of Bank Column and also Credit of Bank Column

Answer Key

Q.No.	Ans.
1	C
2	C
3	A
4	C
5	D
6	A
7	B
8	A
9	C
10	C
11	A
12	C
13	A
14	B
15	B
16	B
17	D
18	C
19	C
20	B
21	A
22	A
23	D
24	A
25	A
26	D
27	D
28	A
29	A
30	B

Q.No.	Ans.
31	D
32	C
33	C
34	B
35	C
36	B
37	D
38	D
39	A
40	D
41	A
42	A
43	D
44	D
45	D
46	B
47	B
48	C
49	B
50	D
51	B
52	A
53	C
54	C
55	A
56	D
57	A
58	C
59	C
60	C

Q.No.	Ans.
61	B
62	B
63	D
64	B
65	C
66	B
67	A
68	B
69	A
70	C
71	B
72	D
73	D
74	A
75	B
76	D
77	C
78	B
79	B
80	A
81	C
82	B
83	D
84	B
85	D
86	C
87	A
88	A



