INDIRA GANDHI INSTITUTE OF TECHNOLOGY
SARANG: DHENKANAL-759146
(An Autonomous Institution of Govt. of Odisha)

No.IGIT/Estt- 586 Date- 24.06.2023

WALK- IN-INTERVIEW FOR ENGAGEMENT OF RETIRED GOVERNMENT EMPLOYEES ON CONSOLIDATED REMUNERATION BASIS IN THE VACANT POSTS OF JUNIOR ASSISTANT & JUNIOR INSTRUCTOR CUM MECHANIC GR-III.

Walk-in-Interview will be held on 04.07.2023 in Indira Gandhi Institute of Technology, Sarang for engagement of retired Government employees in the vacant posts of Junior Assistant & Junior Instructor Cum Mechanic Gr-III. Retired Government employees preferably from Technical Universities/Institutions who were working in analogous/ higher posts are required to attend walk-in-interview with full bio-data along with photo copies of all certificates, appointment order, retirement order and order of last pay drawn from the concerned Government office for engagement on consolidated remuneration basis for a period of one year in pursuance of G.A. Department Resolution No.23750/Gen. Dated-27.08.2014. Remuneration will be paid as per FDOM No.24533/F, dated-29.09.2022.

Sl.No	Name of the post	Number of post	Method of selection	Reporting date, time & venue.
01	Junior Assistant	03	Written, Skill Test & Viva	04.07.2023, 09.00 A.M. to 10.00 A.M. at CDC of IGIT, Sarang.
02	Junior Instructor Cum Mechanic Gr-III	03(Electrical Engg-01, Mechanical Engg./ workshop-02)	Written, Skill Test & Viva	04.07.2023, 09.00 A.M. to 10.00 A.M. at respective departments of IGIT, Sarang.

For detailed information, Syllabus, Bio Data and application format, age, terms & conditions and other eligibility criteria, please visit Institute website www.igitsarang.ac.in. No T.A. & D.A. will be paid for attending the above walk in interview. The authority reserves the right to cancel the whole process of walk in interview at any time without assigning any reason thereof.

S. Mahal
24/06/2023
DIRECTOR

Copy to :

1) The Deputy Director (Advertisement) Information & Public Relation Department (I&PR), Government of Odisha, Bhubaneswar – 751001 with a request to publish the above advertisement in the daily Odia newspaper "The Samaja" & "Sambad" in all Odisha edition in one issue within 25th June 2023. The bill may be sent in duplicate along with a copy of paper in which the publication is made for necessary payment at this end.

Terms & Conditions for engagement of retired Government employees on consolidated remuneration basis in the vacant posts of Junior Assistant & Junior Instructor Cum Mechanic GR-III IGIT,Sarang

1. The selection will be governed by the procedure and rule laid down in General Administration Department Resolution No.23750/Gen. dated-27.08.2014 .
2. Monthly consolidated remuneration of re-engaged/employed officers shall be fixed as per Finance Department Office Memorandum No.24533/F, Dated-29.09.2022
3. Employees who have retired from Government service on attending the age of superannuation and below the age of Sixty four years as on date of advertisement having good service records and are physically fit shall be eligible to be considered.
4. Employees against whom departmental proceedings or criminal cases/vigilance inquiry are contemplated/pending or who have been penalized for misconduct during the period of preceding five years will not be eligible for consideration.
5. Eligible candidates interested may attend the walk in interview on 04.07.2023 by 10.00 A.M. as per venues mentioned in advertisement at Indira Gandhi Institute of Technology,Sarang,Dhenkanal,Odisha-759146 along with duly filled in application format and required testimonials to be verified by the selection board and to appear written test, skill test and viva-voce.

24/06/2023

DIRECTOR

Application/ Bio Data form for Engagement of Retired Personnel with a consolidated remuneration at IGIT, Sarang.

Affix a passport size recent photograph

1. Name of the Applicant:
2. Father's Name:
3. Date of Birth:
4. Educational Qualification:
   (Self-attested photo copies to be attached)
5. Date of Retirement:
6. Post hold at the time of retirement:
   Along with name of the office
   (Copy of retirement order may be enclosed)
7. Whether retired on attaining the age of
   Superannuation or taken voluntary retirement.
8. Present Address:
9. Permanent Address:
10. Whether any Departmental proceedings or
    Criminal cases or vigilance inquiry initiated
    or contemplated/pending against the applicant,
    if yes, did it lead to conviction/imposition of punishment/
    if still pending (details to be indicated)
11. Details of work Experience:
    (Establishment, Accounts, Academic & Examination, Hostels etc.)
    (Separate sheets may be attached)
12. Contact Details:

    Mobile No:-

    E-Mail ID:-

Declaration:

I Sri/Smt.....,Son/Wife of..... do hereby solemnly declare that the information furnished above are true and correct to the best of my knowledge. If at any time, the information is found to be incorrect I will be liable to be disengaged from re-employment without assigning any reason thereof and legal action as deemed proper will be taken against me.

Place:

Full Signature of the Applicant

Syllabus for engagement of retired government employees on consolidated remuneration basis in the vacant posts of **Junior Assistant.**

A) Written Test — Time-One and Half Hour

[Full Mark 50]

Part I

i) General knowledge, knowledge on English grammar, Accounts, Academic and Examination, Stock and store, and Establishment matters [25

(Multiple choice/short answer type each carrying 01 marks)

Part II

ii) Summarizing a given text with prescribed word limit. [10

iii) Noting, drafting and letter writing on given context/matter. [05x3

B) Skill Test (Computer based) [Full Mark 25]

i) Typing in MS Word [10

ii) Knowledge in Excel [7.5

iii) Google form [7.5

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Syllabus for Junior Instructor-cum-Mechanic- Gr.-III (Electrical)

Ohm's Law. Simple electrical circuits and problems. Reading of simple electrical Layout. Resistors-Law of Resistance. Series and parallel circuits. Kirchhoff's Laws and its applications. Fleming's left and right hand rules, Magnetic field of current carrying conductors- loop and solenoid. MMF, Flux density, reluctance. B.H. curve, Hysteresis, Eddy current. Principle of electromagnetic induction, Faraday's Law, Lenz's Law. Alternating current -Comparison and Advantages D.C and A.C. Sine wave. Related terms: phase and phase difference. Frequency, Instantaneous value, R.M.S. value, Average value, Peak factor, Form factor. Inductive and Capacitive reactance Impedance (Z), power factor (p.f). Active and Reactive power. Simple problems on A.C. circuits, single Phase and three-phase system etc. Power consumption in series and parallel load, P.F. etc. Concept three-phase Star and Delta connection. Line and phase voltage, current and power in a 3 phase circuits with balanced load.

Type of materials –P-N-junction. Classification of Diodes – Reverse and Forward Bias, Heat sink. Specification of Diode PIV rating. Explanation and importance of D.C. rectifier circuit. Half wave, Full wave and Bridge circuit. Filter circuits-passive filter. Binary numbers, Logic gates and combinational circuits.

D.C. Machines: Principle, Use of Armature, Field Coil, Polarity, Yoke, Cooling Fan, Commutator, slip ring Brushes, Laminated core. Explanation of **D.C. Generators**-types, parts. **E.M.F**. equation-self excitation and separately excited Generators-Practical uses. Brief description of series, shunt and compound generators. Connection of compound Generator, cumulative and differential. Voltage measurement–No Load and Load. Characteristics of Series, Shunt and Compound Generator. Controlling and protection of DC Generator. Practice of dismantling and assembling of D.C. Machine. Explanation of Armature reaction, inter poles and their uses, connection of interpoles, Commutation. Losses & Efficiency of D.C. Generator, Parallel Operation of D.C. Generator. Application of D.C. generators. **D.C. motor:** Types, Torque, Brake Torque, speed, Back-e.m.f. etc. and their relations, Types of D.C.Motor. Starters used in D.C. motors related problems, Characteristics of D.C.Motor, Losses & Efficiency. Application of D.C. motors. **Transformer**: Working principle, Construction- Single phase and Poly phase. Classification of transformers. Components. E.M.F. equation, parallel operation of transformers and their connections. Regulation and efficiency, simple problems on e.m.f. Equation, turn ratio, regulations and efficiency, and Auto Transformer (Variac). **Induction Motor:** Working principle – Production of rotating magnetic field, Squirrel Cage Induction motor, Slip ring induction motor. Construction, characteristics and Speed control, Slip & Torque. Control & Power circuit of starters D.O.L Starter, Star /Delta starter, Autotransformer starter, Rotor resistance starter, etc. Losses & Efficiency. Application of Induction Motor. **Synchronous Machines:** Working principle, Effect of change of excitation and load, V curve and inverted V curve. Cause of low power factor. Method of power factor improvement. Wiring of electric motors, control panel, etc.

Auxiliary parts i.e. breather, Conservator, buchholz relay, other protective devices. PMMC & MI meter (Ammeter, Voltmeter) -Range extension Wattmeter, Energy meter, Classification of C.T., P.T. Instrument.

Complete House-wiring layout. Estimating and placement of lights, fans and ratings, Code of practice and relevant span. Principle of different methods of earthing. i.e. Pipe, Plate, etc Importance of Earthing. Isolator, pushbutton switches, Indicating lamps, MCB, Fuse, Contactor, Relays, Electric Kettle, Heater / Immersion Heater, Various ways of electrical power generation: Thermal, Hydro electric, Nuclear, Non-Conventional Thermal Coal based, diesel based & Gas based Turbine. Constituents in steam power station.

9.06.2023 9/6/23 09/6/2023 (HC) HOD, CO

(Mechanical Engg)

Syllabus For the Post of Motor Vehicle Mechanic

Basic fastening & fitting operation by using correct hand tools, machine tools &equipment.

Overhauling of engine and check functionality.

trace, test & repair cooling and lubrication system of engine.

Trace & test intake and exhaust system of engine.

Service fuel system and check proper functionality.

Test engine performance and set idling speed.

Monitor emission of vehicle and execute different operation to obtain optimum pollution as per emission norms.

Troubleshoot vehicle engine components and ascertain repair diagnose & rectify the defects in vehicle to ensure functionality of vehicle.

Overhauling of charging system.

Overhauling of starting system.

Troubleshoot electrical components of vehicle and ascertain repair.

Syllabus For the Post of WELDER

Recognize & comply safe working practices

Interpret specifications, different engineering drawing

Select and measure dimension of components and record data.

Set the gas welding plant and join MS sheet in different position.

Set the SMAW machine and perform different type of joints on MS in different position observing standard procedure.

Set the oxy- acetylene cutting plant and perform different cutting operations on MS plate.

Set the SMAW machine and perform welding in different types of MS pipe joints by SMAW.

Choose appropriate welding process and perform joining of different types of metals and check its correctness.

Demonstrate arc gouging operation to rectify the weld joints.

Syllabus For the Post of Machinist

To make job as per specification applying different types of basic fitting operation and check for dimensional accuracy following safety precautions.

Produce components by different operations and check accuracy using appropriate measuring instruments. [different operations - drilling, reaming, tapping, dieing; appropriate measuring instrument – vernier, screw gauge, micrometer]

Set the different machining parameters and cutters to prepare job by performing different milling operation and indexing.

Set (both job and tool) CNC turning centre and produce components as per drawing by preparing part programme.

Plan and perform simple repair, overhauling of different machines and check for functionality. [different machines – drilling machine, milling machine and lathe

Reference:

I.T.I Syllabus of Government of India Ministry of Skill Development & Entrepreneurship Directorate General of Training

05/06/2023

08/06/23