

RPSC ACF And Forest Range Officer ELECTRONICS ENGINEERING Syllabus 2022

Introduction:-

हमारे द्वारा Rajasthan Public Service Commission (RPSC) ACF And Forest Range Officer भर्ती के बारे में विस्तार से जानकारी दी गई अगर आप राजस्थान RPSC ACF And Forest Range Officer परीक्षा की तैयारी कर रहे हो तो पोस्ट आपके लिए अति महत्वपूर्ण है इस आर्टिकल में RPSC ACF And Forest Range Officer के सिलेबस के बारे में जानकारी दी गई है साथ ही आप अपने सब्जेक्ट के अनुसार नीचे दी गई लिंक के द्वारा PDF डाउनलोड कर सकते हैं वे उम्मीदवार जिन्होंने इसका ऑनलाइन आवेदन किया है उनके लिए निम्नतम एग्जाम पैटर्न दिया गया है जो आपके लिए तैयारी करने में काम आएगा।

NAME OF SELECTION BOARD	Rajasthan Public Service Commission
POSTS NAME	RPSC ACF And Forest Range Officer
OFFICIAL WEBSITE	Rpsc.rajasthan.gov.in/
Category	Latest Syllabus
EXAM DATE	Coming soon

RPSC ACF And Forest Range Officer Exam Pattern:-

Paper	Subjects	Question Number	Marks
1	General Knowledge	100	100
2	General English	100	100
3	OPTIONAL SUBJECT - I	120	200
4	OPTIONAL SUBJECT - II	120	200

5	Interview	75
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RPSC ACF And Forest Range Officer ELECTRONICS ENGINEERING Syllabus 2021 Topc Wise

OPTIONAL SUBJECT – ELECTRONICS ENGINEERING

1. Electronic Devices :
 - Energy bands in intrinsic and extrinsic semiconductors,
 - Carrier transport, diffusion current, drift current,
 - mobility and resistivity, Generation and recombination of carriers,
 - Poisson and continuity equations, P-N junction diodes,
 - Zener diode, BJT, MOSFET, LED, photo diodes, solar cell, Thyristors,
 - DIAC and TRIAC.
2. Electronic Circuits:
 - Small signal equivalent circuits of diodes, BJTs and MOSFETs,
 - Simple diode circuits, clipping, clamping and rectifiers, Single-stage and multi-stage BJT and MOSFET amplifiers,
 - biasing, bias stability, small signal analysis and frequency response,
 - Feedback and Power amplifiers, Thyristor triggering circuits,
 - A.C. to D.C. Converters, Inverters, choppers, controlled and uncontrolled power rectifiers, Bridge converters.
3. Linear Integrated Circuits:
 - Simple op-amp circuits, Active filters, Sinusoidal oscillators,
 - criterion for oscillation, opamp configurations, Function generators,
 - wave-shaping circuits and 555 timers, comparators,
 - Regulators and Power supplies, ripple removal and regulation.
4. Digital Electronics:
 - Number systems, Combinatorial circuits, Boolean algebra,
 - minimization of functions using Boolean identities and Karnaugh map, logic gates and their static CMOS implementations,
 - arithmetic circuits, code converters, multiplexers, decoders and PLAs;
 - Sequential circuits: latches and flip-flops, counters, shift-registers,
 - Sample and Hold circuits, ADCs and DACs, Semiconductor memories: ROM, SRAM, DRAM.
5. Microprocessor:
 - 8-bit Microprocessor architectures, Instruction set and simple assembly language programming,
 - interfacing memory and I/O devices, Applications of microprocessors.
6. Control Systems:
 - Basic control system components; Feedback principle, Transfer function, Block diagram representation,
 - Signal flow graph, Routh-Hurwitz and Nyquist stability criteria,

- Bode and root-locus plots, Lag, lead and lag-lead compensation,
 - State variable model and solution of state equation of LTI systems.
7. Network Analysis:
- Nodal and Mesh analysis, Network theorems: superposition,
 - Thevenin and Norton's, maximum power transfer theorems, Steady state sinusoidal analysis using phasors,
 - Time domain analysis of simple linear circuits, Solution of network equations using Laplace transform,
 - Frequency domain analysis of RLC circuits, Linear 2-port network parameters,
 - driving point and transfer functions,
8. Signals & Systems:
- Continuous-time signals, Fourier series and Fourier transform representations, sampling theorem and applications,
 - Discrete-time signals, discrete-time Fourier transform (DTFT), DFT, FFT, Z-transform, LTI systems, definition and properties, causality,
 - stability, impulse response, convolution, poles and zeros,
 - parallel and cascade structure, frequency response, group delay, phase delay.
9. Electromagnetics:
- Electrostatics, Maxwell's equations: differential and integral forms and their interpretation,
 - boundary conditions, wave equation, Poynting vector, Plane waves and properties: reflection and refraction,
 - polarization, phase and group velocity, propagation through various media, skin depth
 - Transmission lines: characteristic impedance, impedance matching, impedance transformation.
10. Electronic Measurements & Instrumentation:
- Accuracy & precision, Repeatability, Digital Voltmeters and Multimeters, Q meters, Vector Impedance meter,
 - RF Power & Voltage Measurements, Introduction to shielding & grounding, Transducers: Classification, Selection Criteria, Characteristics, Construction, Working
 - Principles and Application: RTD, Thermocouples, Thermistors, LVDT, Strain Gauges,
 - Bourdon Tubes, Tachogenerators, Load Cells, Piezoelectric Transducers.

Note :- Pattern of Question Paper

1. Objective type paper 2. Maximum Marks : 200
3. Number of Questions : 120
4. Duration of Paper : Three Hours
5. All questions carry equal marks.
6. There will be Negative Marking.

RPSC ACF And Forest Range Officer Syllabus 2021 Subject Wise

GENERAL KNOWLEDGE
GENERAL ENGLISH
ELECTRICAL ENGINEERING
COMPUTER ENGINEERING
CHEMISTRY
COMPUTER APPLICATION/SCIENCE
ELECTRONICS ENGINEERING
AGRICULTURAL ENGINEERING
ENVIRONMENTAL SCIENCE
BOTANY
GEOLOGY
ZOOLOGY
PHYSICS
AGRICULTURE
STATISTICS
MATHEMATICS
HORTICULTURE
MECHANICAL ENGINEERING
CIVIL ENGINEERING
FORESTRY
CHEMICAL ENGINEERING
VETERINARY SCIENCE

IMPORTANT LINKS
RPSC ACF And Forest Range Officer Syllabus PDF
Official Website

इस नोटिफिकेशन से संबंधित कुछ महत्वपूर्ण प्रश्न:-

1. *RPSC ACF And Forest Range Officer कितने अंको का होता है?*

उत्तर: 675

2. *RPSC ACF And Forest Range Officer पेपर में कितने प्रश्न आते हैं?*

उत्तर: 440

3. RPSC ACF And Forest Range Officer पेपर में कितना समय मिलता है?

उत्तर: इस नोटिफिकेशन में आप देख सकते हो।

4. RPSC ACF And Forest Range Officer Syllabus in hindi. ?

उत्तर: इस नोटिफिकेशन में आप देख सकते हो।

शिक्षा जगत की लेटेस्ट अपडेट पाने के लिए हमारे टेलीग्राम चैनल को
सब्सक्राइब करें



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