

राजस्थान सरकार
शिक्षा (ग्रुप-1) विभाग

क्रमांक प. 4(4)शिक्षा-1 / कम्प्यूटर शिक्षक / 2020

जयपुर, दिनांक : 18/10/2021

अध्यक्ष,

राजस्थान कर्मचारी चयन बोर्ड,
राज्य कृषि प्रबन्ध संसाधन परिसर,
दुर्गापुरा, जयपुर।

विषय :- बेसिक कम्प्यूटर अनुदेशक एवं वरिष्ठ कम्प्यूटर अनुदेशक के पदों पर भर्ती
के सम्बन्ध में।

सन्दर्भ:- आपका पत्रांक : प. 14() RSSB / अर्थना / स्कूल शिक्षा / कम्प्यूटर /
भर्ती / 2021 / 1189 दिनांक 06.10.2021

महोदय,

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उपरोक्त विषयान्तर्गत आप द्वारा प्रेषित संदर्भित प्रस्ताव के अनुसारण में निवेदन है कि
शिक्षा विभाग के अन्तर्गत निम्नांकित पदों पर नियमित भर्ती की जानी है :-

क्र.सं.	पद नाम	पे मैट्रिक्स लेवल	पदों की संख्या	पद का कैडर
1	बेसिक कम्प्यूटर अनुदेशक (Basic Computer Instructor)	L-8	9862	जिला स्तर
2	वरिष्ठ कम्प्यूटर अनुदेशक (Senior Computer Instructor)	L-10	295	संभाग स्तर

उक्त पदों पर भर्ती किये जाने हेतु RSSB को नोडल एजेन्सी नियुक्त किया जाता है।
प्रस्तावित भर्ती हेतु पदवार पृथक-पृथक परीक्षा की स्कीम एवं पाठ्यक्रम तथा पदों की स्वीकृति
का पत्र संलग्न कर प्रेषित किया जा रहा है।

इन पदों की भर्ती से संबंधित नियमों की अद्यतन प्रति एवं पदवार अर्थना पृथक से प्रेषित
की जायेगी।

यह सक्षम स्तर से अनुमोदित है।

संलग्न : उपरोक्तानुसार।

भवदीय,

(प्रवीण कुमार लेखरा)
संयुक्त शासन सचिव

(41)
542

राजस्थान सरकार
शिक्षा (गुप्त-1) विभाग

नोंदीत: प. 14(4)।रोडा-1 / कम्प्यूटर शिक्षक / 2020

जयपुर, दिनांक : 17/10/2021

निदेशक,
माध्यमिक शिक्षा,
राजस्थान, बीकानेर।

विषय :- बेसिक कम्प्यूटर अनुदेशक एवं वरिष्ठ कम्प्यूटर अनुदेशक के पद मृजन एवं
कैंडर निर्धारित किये जाने की स्वीकृति के सम्बन्ध में।
महोदय,

उपरोक्त विषयान्तर्गत निर्देशानुसार लेख है कि स्कूल शिक्षा विभाग के अन्तर्गत निम्नांकित
पदों के लिये निर्धारित कैंडर सार नियमित भर्ती से भरे जाने की स्वीकृति
एत

क्र.सं.	पद नाम	पे मैट्रिक्स लेवल	पदों की संख्या
1	बेसिक कम्प्यूटर अनुदेशक (Basic Computer Instructor)	L-8	9862
2	वरिष्ठ कम्प्यूटर अनुदेशक (Senior Computer Instructor)	L-10	591

यह सहमति वित्त (व्यय-1) विभाग की आई.डी. संख्या 102104237 दिनांक 28.08.2021 के
द्वारा प्राप्त सहमति के अनुसरण में जारी की जाती है।

उक्त पदों हेतु निम्नानुसार कैंडर निर्धारित किया जाता है :-

क्र.सं.	पद नाम	पे मैट्रिक्स लेवल	निर्धारित किये गये कैंडर सार
1	बेसिक कम्प्यूटर अनुदेशक (Basic Computer Instructor)	L-8	जिला स्तर
2	वरिष्ठ कम्प्यूटर अनुदेशक (Senior Computer Instructor)	L-10	संभाग स्तर

भवदीय

(प्रवीण कुमार लेखरा)
०।८ संयुक्त शासन सचिव

प्रतिलिपि : निम्नांकित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित है :-

- विशिष्ट सहायक, माननीय शिक्षा राज्य मंत्री (स्वतंत्र प्रभार) महोदय।
- निजी सचिव, अतिरिक्त मुख्य सचिव, स्कूल शिक्षा एवं भाषा विभाग।
- निजी सचिव, प्रमुख शासन सचिव, दित्त विभाग।
- निजी सचिव, प्रमुख शासन सचिव, कार्मिक विभाग।
- निजी सचिव, प्रमुख शासन सचिव, आयोजना विभाग।
- निजी सचिव, विशिष्ट शासन सचिव, स्कूल शिक्षा।
- संयुक्त निदेशक, जनशक्ति विभाग।
- संयुक्त शासन सचिव / वरिष्ठ शासन उप सचिव / शासन उप सचिव शिक्षा (गुप्त-2, 5, 6) विभाग।
- संयुक्त विधि परामर्शी, स्कूल शिक्षा विभाग।
- वित्तीय सलाहकार, माध्यमिक शिक्षा, बीकानेर।
- उपनिदेशक, योजना, माध्यमिक शिक्षा निदेशालय, बीकानेर।
- उपनिदेशक (मूल्यांकन), शिक्षा (गुप्त-1) विभाग।
- रक्षित पत्रावली।

०।८.१०.२।
(डॉ. रणवीर सिंह)
विशेषाधिकारी-शिक्षा

Scheme and syllabus of competitive examination for the posts of Basic Computer Instructor:-

The examination shall carry 100 marks. There will be two papers. Paper-I shall be of 100 marks and paper-II shall be of 100 marks.

Paper -I

1. The question paper will carry maximum 100 marks.
2. Duration of question paper will be 2.00 hours.
3. The question paper will carry 100 questions of multiple choices.
4. Paper shall include following subject:-
 - (i) Art & Culture, History, Geography, General Science and Current Affairs of Rajasthan.
 - (ii) General Ability in include following point :-
 - A. Logical Reasoning and Analytical Ability.
 - B. Decision Making and Problem Solving.
 - C. General Mental Ability.
 - D. Basic Numeracy - Numbers and their relations, orders of magnitude, etc. (Class X level)
 - E. Data Interpretation - Charts, Graphs, Tables, Data Sufficiency, etc. (Class X level)
5. Negative marking shall be applicable in the evaluation of answer. For every wrong answer 0.5 of the marks prescribed for that particular question shall be deducted.
- Explanation:** Wrong answer shall mean an incorrect answer of multiple answer.
6. Syllabus and Scope of Papers: - The syllabus and scope of paper for the examination will be as prescribed by the Commission/ Rajasthan Staff Selection Board/Appointing Authority as the case may be, from time and will be intimated to the candidates within the stipulated time in the manner as the Commission/ Rajasthan Staff Selection Board/ Appointing Authority, as the case may be, deems fit.

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1. The question paper will carry maximum 100 marks.

-
2. Duration of question paper will be 2.00 hours.
 3. The question paper will carry 100 questions of multiple choices.
 4. Negative marking shall be applicable in the evaluation of answer. For every wrong answer 0.5 of the marks prescribed for that particular question shall be deducted.

Explanation: Wrong answer shall mean an incorrect answer of multiple answer.

5. Paper shall include following subject:-
 - (i) Pedagogy
 - (ii) **Mental Ability:** Decision making and Problem solving, Data Interpretation, Data Sufficiency, Logical Reasoning and Analytical Ability, Major developments in the field of Information Technology.
 - (iii) **Basic numeracy** - numbers and their relations, orders of magnitude, etc. (Class X level)
 - (iv) **Data Interpretation** - charts, graphs, tables, data sufficiency, etc. (Class X level)
 - (v) **Fundamentals of Computer:** Overview of the Computer System including input-output devices, printing devices, and scanner. Representation of Data (Digital versus Analog, Number System - Decimal, Binary & Hexadecimal), Introduction to Data Processing, Concepts of files and its types.
 - (vi) **Data Processing:** Word Processing (MS-Word), Spread Sheet Software (MS-Excel), Presentation Software (MS-Power Point), DBMS Software (MS-Access).
 - (vii) **Programming Fundamentals:** Introduction to C, C++, Java, DotNet, Artificial Intelligence (AI), Machine learning, Python and Block Chain, Principles and Programming Techniques, Introduction of Object Oriented Programming (OOPs) concepts, Introduction to "Integrated Development Environment" and its advantages.
 - (viii) **Data structures and Algorithms:** Algorithms for Problem Solving, Abstract data types, Arrays as data structures, linked list v/s array for storage, stack and stack operations, queues, binary trees, binary search trees, graphs and their representations, sorting and searching, symbol table. Data structure using c & c++.
 - (ix) **Computer Organization and Operation System:** Basic Structure of Computers, Computer Arithmetic Operations, Central Processing Unit and Instructions, Memory Organization, I/O Organization, Operating Systems Overview, Process Management, Finding and processing files.
 - (x) **Communication and Network Concepts:** Introduction to Computer Networks, Introduction: Networks layers/Models, Networking Devices, Fundamentals of Mobile Communication.

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- (xi) **Network Security:** Protecting Computer Systems from viruses & malicious attacks, Introduction to Firewalls and its utility, Backup & Restoring data, Networking (LAN & WAN), Security, **Ethical Hacking**.
 - (xii) **Database Management System:** An Overview of the Database Management, Architecture of Database System, Relational Database Management System (RDBMS), Database Design, Manipulating Data, NoSQL Database Technologies, Selecting Right Database.
 - (xiii) **System Analysis and Design:** Introduction, Requirement Gathering and Feasibility Analysis, Structured Analysis, Structured Design, Object-Oriented Modelling Using UML, Testing, System Implementation and Maintenance, Other Software Development Approaches.
 - (xiv) **Internet of things and its application** :Introduction of Internet Technology and Protocol, LAN, MAN, WAN, Search Services/Engines, Introduction to online & offline messaging, World Wide Web Browsers, Web publishing, Basic knowledge HTML, XML and Scripts, Creation & maintenance of Websites, HTML interactivity Tools, Multimedia and Graphics, Voice Mail and Video Conferencing, Introduction to e-Commerce.

Syllabus and Scope of Papers: - The syllabus and scope of paper for the examination will be as prescribed by the Commission/ Rajasthan Staff Selection Board/Appointing Authority as the case may be, from time and will be intimated to the candidates within the stipulated time in the manner as the Commission/ Rajasthan Staff Selection Board/ Appointing Authority, as the case may be, deems fit.

Scheme and syllabus of competitive examination for the posts of Senior Computer Instructor:-

The examination shall carry 100 marks. There will be two papers. Paper-I shall be of 100 marks and paper-II shall be of 100 marks.

Paper -I

1. The question paper will carry maximum 100 marks.
2. Duration of question paper will be 2.00 hours.
3. The question paper will carry 100 questions of multiple choices.
4. Paper shall include following subject:-
 - (i) Art & Culture, History, Geography, General Science and Current Affairs of Rajasthan.
 - (ii) General Ability include following point :-
 - A. Logical Reasoning and Analytical Ability.
 - B. Decision Making and Problem Solving.
 - C. General Mental Ability.
 - D. Basic Numeracy - Numbers and their relations, orders of magnitude, etc. (Class X level)
 - E. Data Interpretation - Charts, Graphs, Tables, Data Sufficiency, etc. (Class X level)
5. Negative marking shall be applicable in the evaluation of answer. For every wrong answer 0.5 of the marks prescribed for that particular question shall be deducted.

Explanation: Wrong answer shall mean an incorrect answer of multiple answer.
Syllabus and Scope of Papers: - The syllabus and scope of paper for the examination will be as prescribed by the Commission/ Rajasthan Staff Selection Board/Appointing Authority as the case may be, from time and will be intimated to the candidates within the stipulated time in the manner as the Commission/ Rajasthan Staff Selection Board/ Appointing Authority, as the case may be, deems fit.

Paper -II

1. The question paper will carry maximum 100 marks.
2. Duration of question paper will be 2.00 hours.
3. The question paper will carry 100 questions of multiple choices.

-
4. Negative marking shall be applicable in the evaluation of answer. For every wrong answer 0.5 of the marks prescribed for that particular question shall be deducted.

Explanation: Wrong answer shall mean an incorrect answer of multiple answer.

5. Paper shall include following subject:-
 - (i) Pedagogy
 - (ii) **Mental Ability:** Decision making and Problem solving, Data Interpretation, Data Sufficiency, Logical Reasoning and Analytical Ability, Major developments in the field of Information Technology.
 - (iii) **Basic numeracy** - numbers and their relations, orders of magnitude, etc. (Class X level)
 - (iv) **Data Interpretation** - charts, graphs, tables, data sufficiency, etc. (Class X level)
 - (v) **Fundamentals of Computer:** Number system, arithmetic operations, introduction to various categories of computer languages, functional details of Input and Output devices.
 - (vi) **Programming Fundamentals** : C, C++, Java, DotNet, Artificial Intelligence (AI), Machine learning, Python and Block Chain, programming, data types (Built in and user defined), Scope of variables, precedence of operators, control flow, functions, arrays pointers, structures and unions, enumerated data-types and file handling, command line arguments.
 - (vii) **Object Oriented Programming using C++ and JAVA:** Objects and classes, Inheritance, polymorphism, event and exceptions handling, files and streams.
 - (viii) **Data structures and Algorithms:** Abstract data types, Arrays as data structures, linked list v/s array for storage, stack and stack operations, queues, binary trees, binary search trees, graphs and their representations, sorting and searching, symbol table.
 - (ix) **Algorithms:** Tree traversals, Branch and bound and greedy methods, complexity of algorithms.
 - (x) **Digital Logic Systems:** Boolean expressions, K-maps, TTL and CMOS logic families, combinational logic design using half full adders, Sub tractors, and multiplexers, synchronous sequential system design
 - (xi) **Computer Organization and Architecture:** Von-Neumann architecture of computers. Registers and micro operations, control logic, processor addressing and bus organization. Processor input/output and DMA, Memory organization and cache coherence.
 - (xii) **Operating Systems:** CPU scheduling, Deadlocks, Memory management, file systems, disk scheduling. Concepts of Client server architecture in distributed environment and RPC, Process, threads and their synchronization. Real Time OS: clock synchronization and task scheduling. System initialization, booting and handling user accounts. Backup and restore, Bourne shell programming for Linux.

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- (xiii) **Database Management System:** E-R models, Relational algebra, calculus and databases. Integrity constraints, triggers, normalization, and indexing. Transaction processing, concurrency control and Relational Database Management System (RDBMS).
 - (xiv) **Software Engineering:** Phases of System Development Life Cycle. System modeling. Software requirement specifications and DFDs. Introduction to software testing, software project management.
 - (xv) **Data and computer networks:** Evolution of Networking, Data Communication terminologies, Transmission media, Network devices. TCP/IP & OSI/ISO reference models, functions of different layers, characteristics of physical media, multiplexing at physical layer, medium access protocols, introduction to 802.1, 802.4, 802.5, 802.11 LAN technologies, IP protocol including routing and congestion control, TCP and UDP, DNS.
 - (xvi) **Network Security:** Groups, rings and fields in finite space, Euler and Fermat's theorems, primality testing, security services and mechanisms, symmetric and asymmetric encryption including DES, AES, IDEA, RSA algorithms, key management in symmetric and asymmetric encryption, message authentication and hashing, email security, viruses and trusted systems, Networking (LAN&WAN), Security, Ethical Hacking.
 - (xvii) **Basics of communication:** Channel capacity, attenuation, communication impairments, propagation of EM waves through free space (including free space model), PCM and delta modulation, WDM, brief introduction to GSM and CDMA based communication systems.
 - (xviii) **Web Development:** HTML/DHTML, Web Page Authoring Using HTML, Document Object Model Concept and Importance of Document Object Model, Dynamic HTML, document and Document Object Model, Introduction to Cascading Style Sheet (CSS), Extensible Markup Language (XML), Basic of PHP and Java Script.

Syllabus and Scope of Papers: - The syllabus and scope of paper for the examination will be as prescribed by the Commission/ Rajasthan Staff Selection Board/Appointing Authority as the case may be, from time and will be intimated to the candidates within the stipulated time in the manner as the Commission/ Rajasthan Staff Selection Board/ Appointing Authority, as the case may be, deems fit.