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लोक सेवा आयोग
नेपाल राष्ट्र बैंक, प्राविधिक, सूचना प्रविधि, सहायक द्वितीय, सहायक (सूचना प्रविधि) पदको खुला
प्रतियोगितात्मक लिखित परीक्षा
२०८१/०१/१९

KEY [A]

पत्र : प्रथम
समय : २ घण्टा ३० मिनेट

पूर्णाङ्क : १००

विषय : Information Technology - I

उत्तरपुस्तिकामा प्रश्नपत्रको KEY अनिवार्य रूपले उल्लेख गर्नुपर्नेछ । उल्लेख नगरेमा उत्तरपुस्तिका रद्द हुनेछ । परीक्षामा calculator, mobile प्रयोग गर्न पाइनेछैन ।

Objective

Time : 30 mins
25x1=25 Marks

Multiple Choice

- Which signal is used for execution and sequencing of instructions?
A) Logical signal B) Input signal C) Control signal D) Output signal
- What does the term 'peripheral device' refer to in the context of computer system?
A) The main processing unit of a computer
B) External devices connected to a computer to provide input and output capabilities ✓
C) The operating system of a computer
D) A network of interconnected computers
- Which of the following software programs or hardware device filters all data packets coming through the internet or a network?
A) Antivirus B) Firewall ✓ C) Cookies D) Malware
- What is the purpose of a modem in a computer system?
A) Provides digital security B) Performs arithmetic operations
C) Stores data temporarily D) Converts digital signals to analog signals ✓
- What is the purpose of BIOS settings in a computer system?
A) Managing storage device ✓
B) Configuring system peripheral ✓
C) Providing instructions for hardware initialization
D) Managing network connection ✓
- How many pins are available in parallel port?
A) 9 B) 15 C) 20 D) 25
- What is the primary purpose of implementing a backup and disaster recovery plan?
A) To prevent all possible disasters from occurring ✓
B) To minimize the impact of data loss and downtime in the event of a disaster
C) To ensure that no data loss occurs ever
D) To completely eliminate the need for data backup
- IDE interface can be used to connect
A) only hard drive B) only optical drive
C) both hard drive and optical drive ✓ D) none of the above

Contd...

9. What is the primary difference between a vacuum tube and a semiconductor?
A) Vacuum tubes are smaller in size
B) Semiconductors use electrons, while vacuum tubes use ions
C) Vacuum tubes are more efficient at high temperatures
D) Semiconductors consume less power
10. Which of the following transistor circuits is most commonly used?
A) Common Emitter ✓
B) Common Base
C) Common Collector
D) Emitter Collector
11. In a PNP transistor, base will be of material.
A) P
B) N
C) Neither P nor N
D) Either P or N
12. How do MOSFETs differ from JFETs?
A) MOSFETs have higher input impedance
B) JFETs operate at higher temperature
C) MOSFETs are less susceptible to gate capacitance ✓
D) JFETs have a larger channel width
13. Which of the following terms refers to the method of mapping the consecutive memory blocks to consecutive cache blocks?
A) Direct Mapping
B) Parallel Mapping
C) Associative Mapping
D) Indirect Mapping
14. Which ratio is used to measure the performance of cache memory?
A) Chat Ratio
B) Hit Ratio ✓
C) Copy Ratio
D) Data Ratio
15. What is the name given to the method of accessing the I/O devices by repeatedly checking the status flags?
A) Interrupt based I/O ✓
B) Memory Mapped I/O
C) Program-Controlled I/O
D) Hardwired I/O
16. What is the primary function of operating system?
A) Providing security to the system
B) Storing files and directories
C) Running application software
D) Managing hardware resources
17. What method offers higher speed of I/O transfer?
A) DMA ✓
B) Memory mapped I/O
C) Program-controlled I/O
D) Interrupt-initiated I/O
18. A is a named location on a disk where files are stored.
A) Folder ✓
B) Volume
C) Label
D) Root
19. Which of the following is not a common security measure in operating systems?
A) Antivirus Software
B) Firewall
C) Network Router
D) Intrusion Detection System ✓
20. Which network topology is best suited for large business, which must carefully control and coordinate the operation of distributed branch outlets?
A) Ring
B) Local area
C) Hierarchical
D) Star ✓

21. Which of the following accurately describes the concept of subnetting in computer networking?
- A) Subnetting refers to the process of connecting multiple networks together to form a larger network
- B) Subnetting is a technique used to translate domain names into IP addresses
- C) Subnetting involves encrypting data packets to secure them during transmission
- D) Subnetting involves dividing a larger network into smaller sub networks ✓
22. Which of the following is a program that can retrieve files from the World Wide Web and render texts, images or sounds encoded in the files?
- A) Explorer B) Browser C) Web Server D) Web Application
23. What is the primary function of a firewall in network security?
- A) Encrypting data transmission
- B) Filtering network traffic based on predetermined security rules ✓
- C) Managing IP addresses
- D) Controlling access to network resources
24. What technology is commonly used for teleconferencing?
- A) VoIP ✓ B) Bluetooth C) NFC D) RFID
25. What happens to a file if it is compressed?
- A) Quality enhances
- B) Requires less space for storage ✓
- C) Requires more time to deliver to client
- D) Requires decryption to open

- The End -

उत्तरपुस्तिकामा KEY अनिवार्य रूपमा लेख्नुहोला ।

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प्रतियोगितात्मक लिखित परीक्षा
२०८१।०१।२०

KEY [A]

पत्र : द्वितीय
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पूर्णाङ्क : १००

विषय : Information Technology - II

उत्तरपुस्तिकामा प्रश्नपत्रको KEY अनिवार्य रूपले उल्लेख गर्नुपर्नेछ । उल्लेख नगरेमा उत्तरपुस्तिका रद्द हुनेछ । परीक्षामा calculator, mobile प्रयोग गर्न पाइनेछैन ।

Objective

Time : 30 mins
25x1=25 Marks

Multiple Choice

- In word document, how do you show or hide tool bars?
A) Using add-ins in word options
B) Using advanced in word options
C) Using customize quick access tool bar in word options ✓
D) Using customize ribbons in word options
- Which of the following keyboard shortcuts in MS Word is used to redo an action?
A) Ctrl+X B) Ctrl+Y C) Ctrl+Z ✓ D) Ctrl+XY
- A is a collection of predefined design elements and color schemes.
A) Template B) Hyperlink C) Palette ✓ D) Theme
- What is the default margin set in MS-Word?
A) 0.5 inch B) 1 inch ✓ C) 1.5 inch D) 0.1 inch
- Where can you change the vertical alignment?
A) Formatting toolbar ✓ B) Page Setup dialog box
C) Paragraph dialog box ✓ D) Standard toolbar
- Which of the following options is not a valid paper size setting in Excel?
A) Landscape B) A3 C) Letter D) Tabloid ✓
- Which of the following is a relative cell reference in MS Excel?
A) B10 B) \$B\$10 ✓ C) #B10 D) #B#10
- You can detect spelling and grammar error by pressing
- A) Shift + F7 B) Ctrl + F7 C) Alt + F7 D) F7
- logical function indicates TRUE only if all arguments are assessed as TRUE, and FALSE otherwise.
A) OR B) AND ✓ C) IF D) ANDIF
- Which option in spreadsheet is used to display the rows that meet certain conditions?
A) Find B) Filter C) Format D) Sort
- In PowerPoint, the objects on the slide used to hold the text are called
- A) Placeholders B) Textbox C) Textholders ✓ D) None of the above

Contd...

12. In MS PowerPoint presentations, the designs regulate the layout and formatting for the slide. These are commonly known as

- A) Blueprints B) Placeholders C) Templates D) Design Plates

13. Which command is used to remove a relation from SQL?

- A) Drop table B) Delete C) Purge D) Remove

14. Which of the following is not a valid SQL type?

- A) Float B) Numeric C) Decimal D) Character

15. The given Query can also be replaced with

```
SELECT name, course_id  
FROM instructor, teaches
```

```
WHERE instructor_ID=teaches_ID;
```

A) Select name, course_id from teaches, instructor where instructor_id=course_id;

B) Select name, course_id from instructor natural join teaches;

C) Select name, course_id from instructor;

D) Select course_id from instructor join teaches;

16. Which of the following loops in client side scripting loops through properties of an object?

- A) for B) for/in C) while D) do/while

17. Which of the following is the correct inline CSS for p tag to define paragraph's text and background colors?

A) <p css="color: red; background-color: yellow;">

B) <p cssstyle="color: red; background-color: yellow;">

C) <p inline="color: red; background-color: yellow;">

D) <p style="color: red; background-color: yellow;">

18. Which of the following is not HTML tag?

- A) <select> B) <input> C) <textarea> D) <list>

19. A cross-compiler is a

A) compiler for object-oriented languages

B) compiler for JAVA written in C

C) compiler for non-procedural languages

D) compiler that can generate machine codes for another platform

20. Which of the following is not IT Risk Management Process?

A) Identify and analyze the risk

B) Evaluate and Rank the risk

C) Monitor and Review the risk

D) Eliminate all the risk

21. First credit card in Nepal is introduced by in 1990.

A) Himalayan Bank B) Siddhartha Bank C) Nabil Bank D) KIST bank

22. Which of the following cannot be a member of Audit Committee of BFIs as per BAFIA 2073?

- A) BoD Chairman B) BoD Member C) CEO of BFI D) None of the above

५५१ २०३१, १०८११ २०२५
A-3, प्राविधिक, सूचना प्रविधि, सहायक द्वितीय, सहायक (सूचना प्रविधि)

23. According to Electronic Transactions Act, 2063, who issues license to certifying authority?

- A) Office of Company Registrar
- B) Department of Information Technology
- C) Ministry of Communication and Information Technology ✓
- D) Controller

24. When is Nepal Rastra Bank established?

- A) 1954 AD
- B) 1955 AD
- C) 1956 AD
- D) 1957 AD

25. How many strategies are there in IT Policy, 2072?

- A) 15
- B) 20 ✓
- C) 25
- D) 30

- The End -

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प्रतियोगितात्मक लिखित परीक्षा
२०८१।०१।२०

पत्र : द्वितीय
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विषय : Information Technology - II

प्रत्येक Section को उत्तर छुट्टाछुट्टै उत्तरपुस्तिकामा लेख्नुपर्नेछ । अन्यथा उत्तरपुस्तिका रद्द हुनेछ ।

Subjective

Time : 2 hours

75 Marks

Section "A"

45 Marks

1. What is Table of Content? How can you create Table of Content in MS Word? 1+4=5
2. What is page orientation? Explain different types of page orientation in detail. Also explain the use of Drop Cap. 1+3+1=5
3. Describe the process of creating a pivot table in a spreadsheet. Why are pivot table important for data analysis? Describe. 3+2=5
4. Discuss the advantages and disadvantages of using animations and transitions in a presentation. Provide example to support your answer. 5
5. Describe Database Management System. How is it different from File Systems? Explain the different types of JOIN in SQL. 1+1+3=5
6. What are the benefits of mail merge in MS Word? Explain the detail steps you use to create mail merge in MS Word. 2+8=10
7. What are the benefits of database normalization? Create a database in 1NF and convert it into 2NF and 3NF. Explain the ordered index and hash index. 3+3+4=10

Section "B"

30 Marks

8. What is Content Management System? Write its advantages and limitation. 1+4=5
9. What are the perceived benefits and challenges of using IT in commercial banking services in Nepal? Explain with appropriate examples. 5
10. According to the Nepal Rastra Bank Act, what does the 'Negotiable Bill of Exchange' include? Explain. 5
11. Discuss the primary function of the Nepal Rastra Bank as per the Nepal Rastra Bank Act, 2058. 5
12. What are the main objectives of Electronic Transactions Act, 2063? Briefly explain offences relating to computer. 2+8=10

- The End -