BK BIRLA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS
SENIOR SECONDARY CO-ED DAY CUM BOYS' RESIDENTIAL SCHOOL
MID TERM EXAMINATION 2024-25
INFROMATION TECHNOLOGY (802)

Class: XI (SUBJECT-4)   **Duration: 3 hrs.**
Date: 14.09.2024   **Max Marks: 60**
Name: ……………………………   **Exam No. :**

General Instructions:
1. *Please read the instructions carefully.*
2. *This Question Paper consists of 23 questions in two sections: Section A & Section B.*
3. *Section A has Objective type questions whereas Section B contains Subjective type questions.*
4. *All questions of a particular section must be attempted in the correct order.*
5. *SECTION A - OBJECTIVE TYPE QUESTIONS (30 MARKS):*
      i. *This section has 05 questions.*
      ii. *Marks allotted are mentioned against each question/part.*
      iii. *There is no negative marking.*
      iv. *Do as per the instructions given.*
6. *SECTION B – SUBJECTIVE TYPE QUESTIONS (30 MARKS):*
      i. *This section has 18 questions.*
      ii. *A candidate has to do 11 questions.*
      iii. *Do as per the instructions given.*
      iv. *Marks allotted are mentioned against each question/part.*

SECTION A: OBJECTIVE TYPE QUESTIONS

Q.(1) Answer any 4 out of the given 6 questions on Employability Skills.   **(4 x 1 = 4)**

(i) What is the purpose of communication ?
   (a) Inform(tell someone about something)
   (b) Influence (get someone to do something you want)
   (c) Share thoughts, ideas, feelings
   (d) All of the above

(ii) Choose the correct example of oral communication.
   (a) Reports   (b) Newspapers
   (c) Face-to-face interaction   (d) Notes

(iii) Why do we semd emails ?
   (a) To communicate information   (b) To share documents and files
   (c) To talk to each other   (d) Both (a) and (b)

(iv) ………………. refers to knowing one's potential by examining and analysing intellectual and spiritual capacities.
   (a) Self management   (b) Self exploration
   (c) Grooming   (d) Intelligence

(v) ………………… refers to the things people do to keep themselves neat and presentable.
   (a) Team norms   (b) Team process
   (c) Grooming   (d) None of these

(vi) ………………. refers to a group of people who have complementary skills and work towards a common goal.
    (a) Group   (b) Company
    (c) Team   (d) None of these

Q.(2) Answer any 7 questions out of the given 8 questions on Fundamentals of Computer and Components of Computer.   **(7 x 1 = 7)**

(i) In the binary number system, what does the digit "1" represent ?
    (a) False   (b) High voltage
    (c) Binary   (d) Low voltage

(ii) What is the main advantage of using an SSD over an HDD ?
    (a) Higher capacity   (b) Slower speed
    (c) Mechanical components   (d) Faster speed

(iii) What type of memory is volatile and loses its data when the computer is turned off ?
    (a) ROM   (b) Cache memory
    (c) SSD   (d) RAM

(iv) What type of operation is the Arithmetic Logic Unit (ALU) responsible for ?
    (a) Managing memory storage   (b) Directing data flow within the CPU
    (c) Arithmetic and Logical operations(d) Interpreting instructions

(v) Which of the following input device is used to capture images of physical documents ?
    (a) Scanner   (b) Mouse   (c) Keyboard   (d) Joystick

(vi) Which of the following output devices produces hard copies of digital documents ?
    (a) Printer   (b) Monitor   (c) Speakers   (d) Microphone

(vii) Why are pen drives popular ?
    (a) Due to their large size
    (b) Due to their ease of use, portability, and small size
    (c) Due to their ability to connect wirelessly
    (d) None of the above

(viii) Which of the following is an example of an input-output device ?
    (a) Printer   (b) Scanner   (c) Touchscreen   (d) Speakers

Q.(3) Answer any 7 questions out of the given 8 questions on Operating System and Troubleshooting.   **(7 x 1 = 7)**

(i) Which of the following is not an example of an operating system ?
    (a) Windows   (b) MacOS
    (c) Linux   (d) Chrome

(ii) Which of the following is not an example of a hardware device that requires a driver to function properly with an operating system ?
    (a) Keyboard   (b) Monitor
    (c) Processor   (d) Printer

(iii) What is an operating system ?
    (a) A software that manages and controls the hardware and software resources of a computer
    (b) A type of computer hardware
    (c) A device used for input and output
    (d) A type of programming language

(iv) What is process management in an operating system ?
    (a) Managing computer hardware
    (b) Managing tasks or processes running on the computer
    (c) Managing computer software
    (d) Managing computer security

(v) What does the screen look like when the system goes to sleep mode ?
    (a) Blue   (b) White   (c) Pink   (d) Blank

(vi) If the mouse does not work even if it is properly connected to the computer, you should once
try to connect it to :
(a) Another computer and see if it works   (b) The main power
(c) The USB connector   (d) None of these

(vii) What is the name given for a systematic approach used to solve a problem ?
(a) debugging   (b) Inventing   (c) solving   (d) troubleshooting

(viii) Mouse can stop working due to :
(a) Loose connection (b) Internal damage   (c) Both (a) and (b) (d) None of these

**Q.(4) Answer any 6 questions out of the given 8 questions on Utilities and Computer
Networking.   (6 x 1 = 6)**

(i) A minimum of 200-500 MB of ………………… is required for a computer to function well.
(a) Hard disk space   (b) Free space
(c) Thumb drive space   (d) None of these

(ii) It is necessary to …………………. unwanted files regularly so that your disk has free
space.
(a) Create   (b) Manage   (c) Delete   (d) backup

(iii) When the computer becomes completely ……………….. you will have to force stop it by
pressing the power button down till it switches off.
(a) Perfect   (b) Working   (c) Broke down   (d) Unresponsive

(iv) If you are faced with networking problems, you must press on Control panel > …………..
(a) Sharing center   (b) Network
(c) Network and sharing center   (d) None of these

(v) What is the most recent development in communication technology
(a) Telephones   (b) The printing press
(c) The Internet   (d) Smoke signals

(vi) What is a transmission mediun ?
(a) A path for data transmission   (b) a device for data transmission
(c) A protocol for data transmission   (d) A software for data transmission

(vii) Which of the following is an example of guided transmission media ?
(a) Radio waves   (b) Infrared signals
(c) Fiber optic cable   (d) Satellite communication

(viii) Which topology is arranged in a hierarchical tree structure ?
(a) Bus topology   (b) Ring topology   (c) Star topology   (d) Tree topology

**Q.(5) Answer any 6 questions out of the given 8 questions on Internet and its Terminology and
Cyber Threats and Cyber security.   (6 x 1 = 6)**

(i) What is the definition of digital literacy ?
(a) Basic computer skills
(b) Understanding, evaluating and using ICTs responsibly
(c) Knowledge of social media platforms
(d) Online gaming proficiency

(ii) Which of the following is an aspect of digital literacy ?
(a) Cyberbullying awareness   (b) Car maintenance skills
(c) Musical instrument proficiency   (d) Painting techniques

(iii) What is the purpose of TELNET ?
(a) Remote file sharing   (b) Sending and receiving emails
(c) Remote login and access to a computer over a network
(d) Accessing websites on the World Wide Web

(iv) What protocol governs the transferring of emails via the Internet ?
(a) FTP   (b) SMTP   (c) POP3   (d) HTTP

(v) ………………. passwords create vulnerabilities that can be exploited by any attacker.
    (a) Strong   (b) Name based   (c) Weak   (d) Incomplete

(vi) The shortform of "Malicious software" is :
    (a) Maliware   (b) Muscleware   (c) Malicware   (d) Malware

(vii) Layer 3 security is also known as :
    (a) Firewall   (b) Antivirus
    (c) Password manager   (d) Network layer security

(viii) The L in SSL stands for :
    (a) Leak   (b) Level   (c) Layer   (d) Leased

SECTION B: SUBJECTIVE TYPE QUESTIONS

Answer any 3 out of the given 5 questions on Employability Skills   **(3 x 2 = 6)**

Q. (6) What is communication ? Explain any four elements of communication.
Q. (7) Explain different methods of communication.
Q. (8) What is effective communication ? Explain any three 7 Cs of effective communication.
Q. (9) What is a team ? Mention and explain any two factors which influence team building.
Q. (10) Give any four points that are the part of the personal grooming checklist.

Answer any 3 out of the given 5 questions on Subject Specific Skills.   **(3 x 2 = 6)**

Q.(11) What is the main difference between RAM and ROM ?
Q.(12) How does a pen drive transfer data between devices ?
Q.(13) What do you do when there is problem with the speakers ?
Q.(14) What is computer network ? What type of devices can be connected to a PAN network ?
Q.(15) Define a virus. Give any two reasons why firewalls are important.

Answer any 2 out of the given 3 questions on Subject Specific Skills.   **(2 x 3 = 6)**

Q.(16) Explain any three types of operating system by giving suitable example of each.
Q.(17) What is antivirus ? How is antivirus software important ?
Q.(18) What is the purpose and importance of digital literacy ? Give any three points in support of your answer.

Answer any 3 out of the given 5 questions on Subject Specific Skills.   **(3 x 4 = 12)**

Q.(19) Draw block diagram of a computer system and explain each part of it.
Q.(20) What general procedure must you follow if any peripheral device is is NOT working ?
Q.(21) Explain different types of computer network with the help of diagram.
Q.(22) Write short notes on the following :
    (a) E-mail   (b) TELNET   (c) WWW   (d) HTTP
Q.(23) Write any four protective measures that you can take while accessing Internet.

*********** ALL THE BEST ************