

Windows 11
Office 21

Pixel

A Book of **Computer Science**

4

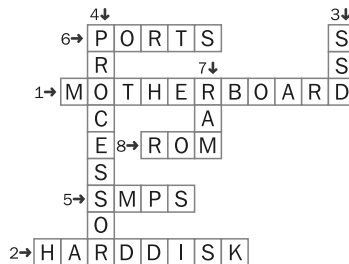


1. Computer : Inside the System Unit

Assessment Zone

- A.** 1. (c) 2. (b) 3. (c) 4. (b) 5. (b)
6. (c)
- B.** 1. T 2. T 3. F 4. F 5. T
- C.** 1. Motherboard 2. Processor or Microprocessor
3. RAM 4. SSD 5. SMPS
- D.** 1. Central Processing Unit.
2. Random Access Memory.
3. Read Only Memory.
4. Switched Mode Power Supply.
- E.** 1. System unit is box-like case that stands near the monitor.
2. (i) It holds many electronic components such as the processor (CPU) and main memory.
(ii) It also provides connectors for other external devices like mouse, keyboard, monitor, etc.
3. The faster the speed of the CPU, the faster the computer operates. The speed of CPU is increasing day-by-day.
4. Ports are a number of holes and slots into which you plug in computer devices like monitor, keyboard, mouse, etc.
For example : USB port, Monitor Port, Network Port, Power Port

Fun Zone



2. Windows : Customizing and Personalizing

Assessment Zone

- A. 1. (a) 2. (c) 3. (b) 4. (a)
- B. 1. T 2. T 3. F 4. F 5. T
- C. 1. Desktop 2. Booting 3. Taskbar 4. Inter-face
- D. 1. **Booting** : The process of starting and restarting a computer is known as booting.
2. **Wallpaper** : Wallpaper is the background image that appears on the desktop.
- E. 1. (i) GUI based Operating System.
(ii) Easy-to-use.
2. To quickly access the programs that we use most often frequently.
3. Using either the Taskbar or the Task View icon.
4. Fill, Fit, stretch, Tile, Center and Span.
- F. Access an app using Task View icon.



3. Word 2021 : Editing and Formatting

Assessment Zone

- A. 1. (c) 2. (c) 3. (b) 4. (b) 5. (b)
- B. 1. F 2. T 3. T 4. F 5. T
6. F
- C. 1. Moving 2. tOGGLE cASE 3. WordArt
4. hard copy
- D. 1. Used to reverse the actions we take while working in a document.
2. Red and blue lines under the words shows spelling and grammatical mistakes.
3. Thesaurus is a list of words grouped together, containing synonyms and antonyms.
4. Align left, Center, Align Right, Justify are the different text alignment options in Word.

5. Wrapping text means adjusting the text around the objects or images accordingly.

E. Using WordArt



4. PowerPoint 2021

Assessment Zone

- A. 1. (c) 2. (b) 3. (b) 4. (b)
- B. 1. T 2. T 3. F 4. F 5. T
- C. 1. slide 2. selected 3. .pptx 4. Design 5. slideshow
- D. 1. PowerPoint is an application software that is used to create presentations.
2. Normal View, Slide Sorter View, Reading View and Slide Show View.
3. Text placeholder allows us to type titles, body text and bulleted lists in slides.
4. To display one slide at a time, filing the entire screen.
- F. Control buttons.



5. Internet : Surfing and Security

Assessment Zone

- A. 1. (a) 2. (b) 3. (b) 4. (b)
- B. 1. F 2. T 3. F 4. T 5. F
6. T
- C. 1. ARPANET 2. E-mail 3. search engine
4. Mosaic 5. safe
- D. 1. (i) To send and receive e-mail messages from anywhere.
(ii) To listen to music and watch movies.
2. Computer System, Modem, Internet Connection.
3. Microsoft Edge, Google Chrome and Mozilla Firefox.
4. To secure account from unauthorized access.
5. (i) Should install a good antivirus in the computer.

- (ii) Should be careful while using Internet.
 - (iii) Never share personal information to any stranger on the Internet.
- E. Do not save the password in the prompt box.

6. Algorithm and Reasoning

Assessment Zone

- A. 1. F 2. T 3. F
- B. 1. Algorithm 2. If-then 3. Debugging
- C. 1. An algorithm is a step-by-step instruction to solve a problem.
 2. Debugging is the process of finding bugs (errors) in algorithm and remove them.
 3. Reasoning is the ability of the mind to think and understand things in a logical way in order to get a conclusion or result.

Fun Zone

Logical Reasoning

1. (c) 2. (a) 3. (c)

Mental Ability

1.

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7. More About Scratch 3

Assessment Zone

- A. 1. (b) 2. (c) 3. (b) 4. (a) 5. (c)
- B. 1. T 2. T 3. F 4. T 5. T
 6. T
- C. 1. four 2. canvas 3. program 4. stage 5. save
- D. 1. Scratch is a block based programming language that allows users to create interactive stories or games.
 2. We can add a sprite in four different ways. These ways are : Choosing sprite from library, Painting or Creating new sprite, surprise sprite and uploading sprite from file.

3. Changing the costume means changing the look of a sprite.
 4. The various ways of changing backdrop of stage are : choose a backdrop from library, paint a new backdrop, surprise backdrop and upload a backdrop from the file.
 5. The forever block is a control block that runs the script continuously until the stop button is pressed.
- E. Upload Sprite.



8. AI in Smart Homes

Assessment Zone

- A. 1. (b) 2. (a) 3. (b) 4. (c) 5. (a)
- B. 1. T 2. T 3. T 4. T 5. F
- C. 1. Siri 2. shopping apps 3. Intenet 4. footage
5. Microsoft
- D. 1. Social networking companies use AI to recommend people you know.
2. The main goals of Artificial Intelligence are to copy human intelligence, learn things by itself and carry out knowledge-intensive tasks.
3. (i) Smart Cameras
(ii) Smart Lighting
(iii) Smart Lock
4. LUIS app understands the commands given by the user and takes an appropriate action that user wants it to perform.
- E. Smart Camera.

Fun Zone

1. Sensors 2. Smart Lock 3. Data



Half-Yearly Model Test Paper

Chapter 1-4

- A. 1. (c) 2. (b) 3. (a) 4. (a) 5. (c)
6. (a) 7. (a) 8. (c)
- B. 1. T 2. T 3. T 4. F 5. T
6. T 7. T 8. T 9. F 10. F

- C.** 1. SMPS 2. Processor or Microprocessor
3. privacy 4. tOGGLE cASE 5. WordArt
6. Slide Show 7. .pptx
- D.** 1. ROM stores data or instructions that need to be permanent.
2. SMPS is used to transfer power supply to the computer.
3. Multitasking means running two or more apps side by side using either the taskbar or the Task View.
4. Wrapping text means adjusting the text around the objects or images accordingly.
5. Thesaurus is a list of words grouped together, containing synonyms and antonyms.
6. Slide pane is an area which displays a large view of the current slide.
- E.** 1. Disk drives are used for storing data, instructions and information for future use. Hard disk drive, CD-ROM/DVD/Blue-ray drive are its examples.
2. HDMI Port, Monitor Port, USB Port, Ethernet Port, Power Port.
3. Some apps are not displayed in the Start menu; you have to open them from the All apps button and then navigate through the list that appears. You can add a frequently used app permanently in the Start menu.
4. Instead of setting the desktop background and color scheme individually, you can change all of these at once by applying a theme.
5. There are four different text alignment options in word :
(i) Align Left (ctrl + L) (ii) Center (ctrl + E) (iii) Align Right (ctrl + R)
(iv) Justify (ctrl + J)
6. A title slide is the first slide in a presentation. The title slide includes the title or subject of the presentation.
7. Text placeholder allows you to type titles, body text and bulleted list in slides.
8. Normal view, Outline view, slide sorter view, reading view, slide show view and Notes page view are the main views of PowerPoint window.



Annual Model Test Paper

Chapter 5-8

- A.** 1. (a) 2. (b) 3. (b) 4. (a) 5. (b)
6. (c) 7. (a) 8. (a) 9. (b) 10. (c)
- B.** 1. T 2. F 3. T 4. T 5. F
- C.** 1. Web-browser or browser 2. Mosaic 3. Looks
4. .sb3 5. stage 6. AI 7. internet 8. footage

- D.**
1. **Web browser** : A web browser or browser, is a software program that allows you to browse the internet and open different websites.
 2. **URL** : Uniform Resource Locator (URL) is a unique address of each page on the website.
 3. **Modem** : A device that receives data from the Internet and sends data from your computer to the Internet.
 4. **Search engine** : Search engine is a program that searches through the collection of web pages for a particular information.
 5. **Control blocks** : Control Blocks control the execution of script based on predefined event.
 6. **Forever block** : The Forever block is a Control block which runs the script continuously until the stop button is clicked.
 7. **Smart Assistant** : It is a smart virtual assistant that uses speech recognition technology to interact with users to do a variety of tasks.
 8. **Sequencing** : Sequencing is the particular order in which instructions are performed in an algorithm.
- E.**
1. (a) Should install a good antivirus in the computer.
(b) Should be careful while using Internet.
(c) Never share personal information to any stranger on the internet.
 2. (a) You can get information on any topic of your interest easily.
(b) You can send and receive e-mail messages at a very fast speed.
(c) You can play online games and make new friends.
 3. We should use safe browsing while using the internet at public places.
 4. We should make strong password that is unique, strong and not easily guessed by strangers or those close to you.
 5. It means, how a sprite should be looked.
 6. It is a programming paradigm in which the flow of program execution is determined by events.
 7. The Forever block is a Control block which runs the script continuously until the Stop button is clicked. This block is mainly used to perform a task repeatedly.
 8. Smart Lock, Smart lighting and Smart Cameras are three smart home products.
 9. The main goals of AI are to :
 - ★ Copy human intelligence.
 - ★ Carry-out knowledge-intensive tasks.
 - ★ Learn new things by itself.
 - ★ help human in day to day life.
 10. It is an AI application that understands the commands, given by the user and takes an appropriate action that the user wants it to perform.

