

Answers

SECTION A

1. A
2. D
3. D
4. A
5. B
6. B
7. A
8. B
9. B
10. A
11. C
12. A
13. B
14. B
15. C
16. C
17. C
18. D
19. C
20. A



SECTION B

21. Secondary memory examples

- i. Hard disk / HDD
- ii. Flash disk / USB drive
- iii. CD / DVD
- iv. Memory card (SD card)
- v. External hard drive
- vi. SSD (solid state drive)

22. Marking and measuring tool

(a) Name of tool:

- Vernier caliper

(b) Use of tool:

- i. Measuring external diameter of objects (e.g., pipes, rods, screws)
- ii. Measuring internal diameter of objects (e.g., holes, tubes)
- iii. Measuring depth of containers or holes
- iv. Measuring length of small objects accurately
- v. Measuring thickness of materials (e.g., metal sheets, glass, paper)
- vi. Measuring step height or difference in levels
- vii. Used in engineering workshops for accurate machining work
- viii. Used in laboratories for scientific experiments requiring precision
- ix. Used in Pre-Technical Studies and mechanical drawing activities
- x. Used to ensure quality control in manufacturing

23. Roles of Pre-technical studies

- i. Develops practical skills for daily life
- ii. Helps learners solve real-life technical problems
- iii. Promotes creativity and innovation
- iv. Prepares learners for technical careers
- v. Teaches safety in work environments
- vi. Improves ICT and drawing skills
- vii. Builds problem-solving ability

24. Non-metallic materials for playground

- i. Wood
- ii. Plastic
- iii. Rubber
- iv. Fiberglass
- v. Concrete
- vi. Rope (nylon)

25. Metal for underwater pipeline

- i. Stainless steel (best answer)
- ii. Copper
- iii. Galvanized iron
- iv. Aluminum alloy

Reasons:

- i. Resistant to rust / corrosion
- ii. Strong and durable
- iii. Can withstand water pressure
- iv. Long-lasting in wet conditions
- v. Low maintenance cost

26. ICT tools in communication

- i. Mobile phone
- ii. Computer / laptop
- iii. Tablet
- iv. Radio
- v. Television
- vi. Email system
- vii. Printer (for communication output)
- viii. Projector

27. Drawing technique used

Stippling technique

28. Types of lines in drawing

- i. Perpendicular
- ii. Parallel
- iii. Break line

- a. Continuous thick line / object line
- b. Dashed line / hidden line
- c. Chain thin line / centre line
- d. Construction line
- e. Dimension line
- f. Leader line
- g. Border line

29. Characteristics of computers

- i. Accuracy
- ii. Speed
- iii. Diligence (no fatigue)
- iv. Storage capability
- v. Versatility
- vi. Automatic operation
- vii. Reliability
- viii. Consistency

30. Online threats in work environment

- i. Cyberbullying
- ii. Hacking
- iii. Virus attacks
- iv. Data theft
- v. Phishing
- vi. Malware
- vii. Unauthorized access

31. Alloy meaning and importance

- i. Alloy is a mixture of two or more metals or a metal with other elements
- ii. Alloys are stronger than pure metals
- iii. Alloys resist corrosion and rust
- iv. Alloys are more durable and long-lasting
- v. Alloys improve hardness and strength
- vi. Alloys are used in construction, machines, and tools

