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| Date of Examination |
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| No of Questions | 20 |
| No. of Pages | 04 |

GENERAL SIR JOHN KOTELAWALA DEFENCE UNIVERSITY

SELECTION TEST FOR THE ENROLLMENT OF DAY SCHOLARS - INTAKE 41

BACHELOR OF ENGINEERING TECHNOLOGY (HONS) IN BIOMEDICAL INSTRUMENTATION
TECHNOLOGY

BACHELOR OF ENGINEERING TECHNOLOGY (HONS) IN BUILDING SERVICES TECHNOLOGY

BACHELOR OF ENGINEERING TECHNOLOGY (HONS) IN CONSTRUCTION TECHNOLOGY

BACHELOR OF TECHNOLOGY (HONS) IN INFORMATION AND COMMUNICATION
TECHNOLOGY

SUBJECT KNOWLEDGE - 2023

Instructions:

Answer all questions

Duration: 20 Minutes

Mark the correct answers on the MCQ answer sheet, which is provided

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1. Which one of the following common devices works on the basis of the principle of mutual induction?
 - a. Tube light
 - b. Transformer
 - c. LED
 - d. Photodiode
 2. Polyvinyl chloride is,
 - a. A substance used in water purification
 - b. It is a type of plastic
 - c. A chemical used to produce aluminum
 - d. It is a raw material used to make floor tiles
 3. Which of the following language does the computer understand?
 - a. Computer understands only C Language
 - b. Computer understands only Assembly Language
 - c. Computer understands only Binary Language
 - d. Computer understands only BASIC

4. The most suitable instrument for measuring the diameter of a small steel sphere with an accuracy of 0.01mm is,
 - a. Steel Ruler
 - b. Vanier Caliper
 - c. Micrometer
 - d. Inner Caliper

5. Which of the following are physical devices of a computer?
 - e. Hardware
 - f. Software
 - g. System Software
 - h. Package

6. Not a property of Cast Iron,
 - a. Toughness
 - b. High compressive strength
 - c. High tensile strength
 - d. Less plasticity

7. The main memory of a computer system is?
 - i. Non-Volatile
 - j. Volatile
 - k. Restricted
 - l. Unrestricted

8. Choose the most energy efficient electric lamp type
 - a. Incandescent lamp
 - b. LED lamp
 - c. Florescent lamp
 - d. Compact Florescent Lamp (CFL)

9. "www" stands for:
 - a. World Wide Web
 - b. World Wide Wares
 - c. World Wide Wait
 - d. World Wide War

10. The point resides on both lines $x - 2y = 1$ and $2x - y = 1$ is,
- (1,0)
 - $(\frac{1}{3}, -\frac{1}{3})$
 - $(-\frac{1}{2}, \frac{1}{2})$
 - (0,0)
11. The computer's processor consists of the following parts
- CPU and Main Memory
 - Hard Disk and Floppy Drive
 - Control Unit and ALU
 - Operating System and Application
12. Which of the following refers to a small, single-site network ?
- LAN
 - DSL
 - RAM
 - USB
13. Which of the following memory is non-volatile
- SRAM
 - DRAM
 - ROM
 - All the above
14. Super Computers are mainly used for
- Mathematical intensive scientific applications
 - Data-retrieval operations
 - Input-output intensive processing
 - All of the above
15. Concrete in building construction is made from
- Cement, Aggregate, Water
 - Cement, Aggregate, Water, Steel
 - Cement, Aggregate
 - Cement, Steel
16. Consider the following statements:
- Water has high specific heat capacity of than ice
 - Heat capacity of cooking oil is lower than the heat capacity of water
- Which of the above statements is/are correct?

- a. 1 Only
 - b. 2 Only
 - c. Both 1 & 2
 - d. Neither 1 nor 2
17. Which key of a computer keyboard is used in combination with another key to perform a specific task?
- a. Function
 - b. Spacebar
 - c. Arrow
 - d. Control
18. Which of the following is a storage device?
- a. Floppy discs
 - b. Hard disk drive
 - c. Optical disc
 - d. All of the above
19. The thickness of the mortar layer applied between 2 bricks in an engineered brick wall is,
- a. 10 mm
 - b. 15 mm
 - c. 25 mm
 - d. 5 mm
20. Heat can be defined as the
- a. Temperature of a system
 - b. Flow of energy between two systems
 - c. Total amount of energy of a system
 - d. Amount of work done on a system

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