



Hamdard Institute of Information Technology
Faculty of Engineering Sciences and Technology
HAMDARD UNIVERSITY

Aptitude Test Paper
SAMPLE

Questions: 100
Duration: 90 minutes

PARTICULARS

Admit Card Number: _____

Student Name: _____

Father Name: _____

Discipline: _____

Postal Address: _____

Phone Number: _____

Examination Center: _____

Instructions:

- Candidates must have to follow invigilators' instructions
- Use of any sort of unfair means will immediately disqualify the candidate
- Calculators and Mobile Phones are strictly not allowed
- Do not write any thing on question paper
- Mark well your choice of answer on the provided Answer Sheet in pencil

Total five sections, each with 20 questions:

- ✓ English
- ✓ General Knowledge
- ✓ Intelligence Quotient
- ✓ Mathematics
- ✓ Physics

ENGLISH

- Q.1. 'Well begun is half _____.'
- (A) done
 - (B) begun
 - (C) lost
 - (D) won
- Q.2. The coach asked: 'Who will set the ball _____?'
- (A) flying
 - (B) diving
 - (C) running
 - (D) rolling
- Q.3. _____ police arrested _____ robber.
- (A) A, a
 - (B) A, the
 - (C) The, the
 - (D) The, a
- Q.4. "You are late, the test is over now.", the tense of this sentence is:
- (A) Simple Present Tense
 - (B) Present Perfect Tense
 - (C) Present Continuous Tense
 - (D) Present Perfect Continuous Tense
- Q.5. Fabric means _____.
- (A) Cloth
 - (B) Structure
 - (C) Foundation
 - (D) All of the above

GENERAL KNOWLEDGE

- Q.6. The National Flower of Pakistan is _____.
- (A) Rose
 - (B) Lilly
 - (C) Jasmine
 - (D) Tulip
- Q.7. The highest Mountain in the Pakistan is _____.
- (A) Everest
 - (B) K2
 - (C) Himalaya
 - (D) Hindokash
- Q.8. Saeed Anwar scored the highest one-day record of 194 runs against _____.
- (A) Bangladesh
 - (B) Sri Lanka
 - (C) India
 - (D) Zimbabwe
- Q.9. The currency of Japan is _____.
- (A) Euro
 - (B) Dollar
 - (C) Japanese Dollar
 - (D) Yen
- Q.10. Pakistan Resolution was passed on _____.
- (A) June 03, 1947
 - (B) November 30, 1930
 - (C) March 23, 1940
 - (D) September 06, 1965

INTELLIGENCE QUOTIENT

Q.11. Which number comes next in this list? 121, 81, 49, ...

- (A) 19
- (B) 25
- (C) 36
- (D) 25

Q.12. One of these things doesn't belong. Which is it?

- (A) Computer
- (B) Typewriter
- (C) Cell phone
- (D) Post-it note

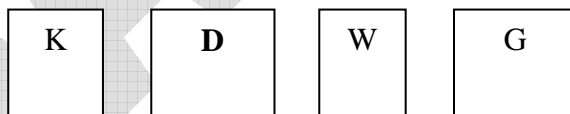
Q.13. Fall is to Winter as Monday is to _____?

- (A) Tuesday
- (B) Sunday
- (C) Wednesday
- (D) Friday

Q.14. List the following words alphabetically: Heart, Nose, Head, Hair.

- (A) Hair, Heart, Nose, Head
- (B) Hair, Head, Heart, Nose
- (C) Nose, Hair, Heart, Head
- (D) Heart, Hair, Head, Nose

Q.15. Which among these is a perfect square?



- (A) G
- (B) D
- (C) K
- (D) W

MATHEMATICS

Q.16. If $A = \{1, 2, 3\}$ and $B = \{3, 4, 5\}$, then $A \cup B$ will be equal to _____.

- (A) \emptyset
- (B) $\{3\}$
- (C) $\{1, 2, 3, 4, 5\}$
- (D) None of above

Q.17. Expression $\frac{1.87 * 3.56}{20.2}$ can be written in logarithm form as _____.

- (A) $\log 1.87 + \log 3.56 - \log 20.2$
- (B) $\log 1.87 - \log 3.56 + \log 20.2$
- (C) $\log 20.2 + \log 1.87 - \log 3.56$
- (D) $\log 20.2 - \log 1.87 + \log 3.56$

Q.18. $\int e^x dx =$ _____.

- (A) $\frac{1}{e^x}$
- (B) e^x
- (C) $-\frac{1}{e^x}$
- (D) 1

Q.19. Dot Product $\vec{i} \cdot \vec{i} = \vec{j} \cdot \vec{j} = \vec{k} \cdot \vec{k}$ is equal to _____.

- (A) i
- (B) j
- (C) k
- (D) 1

Q.20. According to De-Morgan's Law;

- (A) $(A \cup B)' = (A \cap B)'$
- (B) $A' \cup B' = (A \cup B)'$
- (C) $A' \cap B' = (A \cap B)'$
- (D) $(A \cup B)' = A' \cap B'$

PHYSICS

- Q.21. Newton's first law of motion gives the concept of _____.
- (A) Energy
 - (B) Work
 - (C) Inertia
 - (D) Momentum
- Q.22. No current flows between two charged bodies when connected together, if they have;
- (A) The same charge
 - (B) The same potential
 - (C) The same capacitance
 - (D) None of above
- Q.23. When we observe Newton's rings in water, the circular rings _____.
- (A) Contract
 - (B) Remain same.
 - (C) Expand.
 - (D) Appear to be of different color
- Q.24. An isolated transformers works on the principle of _____.
- (A) Mutual Induction
 - (B) Conduction
 - (C) Electromagnetic conduction
 - (D) None of these
- Q.25. Electron was discovered by _____.
- (A) J.J. Thomson
 - (B) Einstein
 - (C) Newton
 - (D) Alfred Nobel