Aligarh Institute of Technology

A Project of Aligarh Muslim University Old Boys' Association of Pakistan

DAE Model Sample Test Paper 2024-25

1. **Which Planet is the nearest from the Earth.**
   a) Jupiter
   b) Neptune
   c) Mars
   d) Pluto

2. **Which is the biggest Company of Computer Software Development?**
   a) Dell
   b) Intel
   c) Microsoft
   d) None of these

3. **The second form of "smell" is**
   a) Smelled
   b) Smell
   c) Smallest
   d) Smelt

4. **Lahore is famous ____its Historical Buildings.**
   a) By
   b) at
   c) in
   d) for

5. **According to Newton second law.**
   a) Fa=m
   b) F=ma
   c) $V_f^2 - V_i^2 = 2as$
   d) T=ma

6. **The vertical component of vector is**
   a) F Sin Θ
   b) F Cos Θ
   c) F Tan Θ
   d) F Cot Θ

7. **The value of "g" is**
   a) $9.8 m/sec^2$
   b) $9.2 m/sec^2$
   c) $10.1 m/sec^2$
   d) $8.9 m/sec^2$

8. **The flow of electron is called**
   a) Resistance
   b) Voltage
   c) Velocity
   d) Current

9. **The chemical name of Sodium Chloride is**
   a) Na2cl
   b) Nacl2
   c) Nacl
   d) NaCa

10. **The valency of oxygen is**
    a) 8
    b) 5
    c) 4
    d) 2

11. **There are ___group of Atom in periodic Table.**
    a) 3
    b) 4
    c) 5
    d) 7

12. **The SI Unit of Temperature is**
    a) Celsius
    b) Fahrenheit
    c) Kelvin
    d) None of these

13. **2,6,10,12,3,9 (Find Arithmetic Mean)**
    a) 7
    b) 8
    c) 9
    d) 3

14. **If in a right-angle triangle, a=5, b= 2 √6, find c**
    a) 3
    b) 7
    c) 8
    d) 6

15. **If U= {1,2,3........10}, A= {2,4,5,7,9} Find A' (A Compliment)**
    a) A' = {2,5,7}
    b) A' = {3,5,7}
    c) A' = {1,3,6,8,10}
    d) None of these.

16. **The radius of Circle, if area is 25 π**
    a) 5
    b) 3
    c) 6
    d) 8

17. **The angle of a triangle is 2X, 7X And 6X Find X:**
    a) 15^0
    b) 20^0
    c) 12^0
    d) 30^0

18. Sec Θ -Tan Θ Sin Θ (Simplify)
   a) Tan Θ   b) Sec Θ   c) Cos Θ   d) Sin Θ

19. X=log₅ 25 (Find Value of X)
   a) 2   b) 8   c) 9   d) 3

20. 1/ (x+2) – 2 = 1/x (Find value of X)
a) 4   b) -3   c)2   d) -1