

Question Booklet No.	Question Booklet Series : A
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AUAT — 2024
B. Sc. Honours in Mathematics/Statistics (U13)
(TEST BASED ON MCQ)

Full Marks : 100	Duration : 2 Hours
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Roll No. of the Candidate : _____ Date of Examination : _____ Name of Examination Centre : _____ Signature of the Candidate : _____	Signature of the Invigilator on Verification
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IMPORTANT INSTRUCTIONS

Candidates should read the below instructions carefully and follow them accordingly.

1. The Question Booklet has paper seal pasted on it. Please do **NOT** open the Question Booklet until you are asked to do so by the Invigilator.
2. The candidates must check immediately after breaking the seal that the Question Booklet contains **100 Multiple Choice Questions** in two parts (Part—I and Part—II).
3. Answer of questions of Part—I and Part—II both will have to be given on the **OMR Answer Sheet** provided for this purpose. Fill up the necessary fields that are intended for you by writing and/or shading appropriately. Otherwise the **OMR Answer Sheet cannot** be evaluated and will liable to be rejected. Question numbers progress from **1** to **100** continuously with alternative answers being shown as [A], [B], [C] and [D] for each question. Record your response by completely darkening the corresponding bubble. While responding, you should consider the best alternative answer and shade only one bubble with black/blue ball point pen only. For each correct response you will be awarded **1** mark. There will be negative marking for wrong responses. For each wrong response, **-0.25** mark will be awarded. Multiple responses against one **MCQ** will be treated as a wrong response.
4. On leaving the examination hall, candidates must submit the **OMR Answer Sheet**. They are allowed to keep the Question Booklet with them.
5. **OMR Answer Sheet** will be processed by electronic means. Any untoward/irrelevant remarks, folding or putting stray notes on the answer sheet, any damage to the answer sheet will lead to the rejection of the same and the sole liability shall remain with the candidate.
6. Rough Work may be done at the end of the Question Booklet.
7. No candidate will be allowed to leave the examination hall before completion of the examination.
8. Use of any Electronic device like Mobile, Programmable Calculator etc. is strictly prohibited.

DO NOT OPEN THE SEAL UNTIL INSTRUCTED TO DO SO

PART—I (Core Subject)

1. The number of subsets in a set consisting of five elements is

$$\text{Set of } 5 \text{ elements} \Rightarrow \text{Number of subsets} = 2^5$$

- [A] 5
[B] 10
[C] 25
[D] 32

2. Let $A = \{x : x \in \mathbb{N}\}$, $B = \{2x : x \in \mathbb{N}\}$ and $C = \{x : x \text{ is a prime number}\}$. The number of elements of $A \cap B \cap C$ is

$$A = \{x : x \in \mathbb{N}\}, B = \{2x : x \in \mathbb{N}\} \text{ and } C = \{x : x \text{ is a prime number}\}$$

$$A \cap B \cap C = \{x : x \text{ is a prime number and } x \text{ is even}\} = \emptyset$$

- [A] finite (∞)
[B] 0
[C] 1
[D] ∞

3. Total number of relation on a set $A = \{a, b\}$ is

$$A = \{a, b\} \Rightarrow \text{Number of relations} = 2^{2 \times 2} = 2^4 = 16$$

- [A] 4
[B] 8
[C] 16
[D] 32

4. Domain of the function $f(x) = \frac{1}{\sqrt{|x|} - x}$

is

$$f(x) = \frac{1}{\sqrt{|x|} - x} \Rightarrow \sqrt{|x|} - x > 0$$

- [A] ϕ
[B] $\mathbb{N}$
[C] $\mathbb{Z}^+$
[D] $\mathbb{Z}^-$

5. Range of the function

$$f(x) = \sqrt{x+1} + \sqrt{1-x} \text{ is}$$

$$f(x) = \sqrt{x+1} + \sqrt{1-x} \Rightarrow \text{Range} = [-1, 2]$$

- [A] $[-1, 1]$
[B] $(-1, 1)$
[C] $[\sqrt{2}, 2]$
[D] $(\sqrt{2}, 2)$

6. If $4f(x) + 3f(-x) = 7 - 3x$, then $f(x) = ?$

$$4f(x) + 3f(-x) = 7 - 3x \text{ and } 4f(-x) + 3f(x) = 7 + 3x$$

$$\Rightarrow f(x) = 1 - 3x$$

- [A] $1 - 3x$
[B] $1 + 3x$
[C] $3x$
[D] $-3x$

7. The angle subtended at the centre of a circle, by a chord whose length is equal to the radius of the circle will be

$$\text{Chord length} = \text{Radius} \Rightarrow \text{Angle} = 60^\circ$$

- [A] $\frac{\pi}{2}$
[B] $\frac{\pi}{3}$
[C] $\frac{\pi}{4}$
[D] $\frac{\pi}{6}$

8. The minimum value of $\sec^2 \theta + \cos^2 \theta$ is

$$\sec^2 \theta + \cos^2 \theta \geq 1$$

- [A] 1
[B] 2
[C] 0
[D] Undefined (∞)

9.
$$\begin{vmatrix} 1+a^2+b^2 & 2ab & -2b \\ 0 & 1-a^2+b^2 & 2a \\ b(1+a^2+b^2) & -2a & 1-a^2-b^2 \end{vmatrix} = ?$$

[A] $(1+a^2+b^2)^3$

[B] $(1-a^2+b^2)^3$

[C] $(1+a^2-b^2)^3$

[D] $(1-a^2-b^2)^3$

10. $f(x) = \tan^{-1}(\sin x + \cos x)^3$ is an increasing function in

$f(x) = \tan^{-1}(\sin x + \cos x)^3$ _____

[A] $(0, \frac{\pi}{2})$

[B] $(0, \frac{\pi}{4})$

[C] $(0, \frac{\pi}{6})$

[D] $(0, \frac{\pi}{8})$

11. If $A = \begin{pmatrix} -5 & 8 & 0 \\ 3 & 5 & 0 \\ 1 & 2 & -1 \end{pmatrix}$, then A^2 is

$A = \begin{pmatrix} -5 & 8 & 0 \\ 3 & 5 & 0 \\ 1 & 2 & -1 \end{pmatrix}$ _____

[A] idempotent

$\hat{I}^3 Q \hat{I}$

[B] nilpotent

$\hat{A} > Q \hat{A} \hat{A}$

[C] involutory

$I_j f Q \hat{I}$

[D] periodic

$\hat{S}^m \hat{A} \hat{U} \hat{A} \hat{V}$

12. Which of the following relation is **true**?

$[>^3 [^o [J t_i \hat{e} A_i \hat{a} > \hat{I}' \hat{S} A_i [i_i \hat{I} t_i ?$

[A] $\sin \theta = \frac{7}{5}$

[B] $\cos \theta = \frac{7}{5}$

[C] $\tan \theta = \frac{7}{5}$

[D] $\sec \theta = \frac{5}{7}$

13. If $A = \begin{pmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 \end{pmatrix}$, then $|A^t|$ (where A^t denotes the transpose of A) is

$A = \begin{pmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 \end{pmatrix}$ _____

$A^t = \begin{pmatrix} 0 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{pmatrix}$

[A] 0

[B] 1

[C] 2

[D] 3

14. If A and B are symmetric matrices of same order then $AB - BA$ is

$A = \begin{pmatrix} 1 & 2 \\ 2 & 3 \end{pmatrix}$ _____

[A] symmetric

$\hat{S} [t_i \hat{I}^3$

[B] skew symmetric

$[t_i^m A_i \hat{S} [t_i \hat{I}^3$

[C] idempotent

$\hat{I}^3 Q \hat{I}$

[D] invertible

$[\hat{S}^1 \hat{A} \hat{I} \hat{I}^m \hat{K}$

- 4

21. $\arg(x)$ (where $x < 0$); is
 $\arg(x) - \frac{\pi}{2}$ ($\pi > x > 0$)
 [A] 0
 [B] $\frac{\pi}{2}$
 [C] π
 [D] $\frac{1}{2}$
22. If $(1+x)^n = a_0 + a_1x + a_2x^2 + \dots + a_nx^n$,
 then $(a_0 - a_2 + \dots)^2 + (a_1 - a_3 + \dots)^2$ is
 equal to
 2^n
 3^n
 2^{n-1}
 3^{n-1}
23. If x satisfies the equation
 $(x^2 - 2x \cos \theta + 1) = 0$, then the value of
 $x^n + \frac{1}{x^n}$ is
 $2^n \cos n\theta$
 $2^n \cos^n \theta$
 $2 \cos n\theta$
 $2 \cos^n \theta$
24. If ω is a cube root of unity, then
 $\omega + \omega^2 + \omega^4 + \omega^8 + \dots$ is
 -1
 0
 i
 i^3

25. The coefficient of x^{20} in the expansion
 of $(1+x^2)^{40} \times (x^2 + 2 + x^{-2})^{-5}$ is
 $^{30}C_5$
 $^{30}C_{10}$
 $^{30}C_{20}$
 $^{30}C_{25}$
26. How many 3-digit even numbers can
 be made using the digits 1, 2, 3, 4, 6, 7,
 if no digit is repeated?
 3^6
 30
 60
 $6!$
27. How many words, with or without
 meaning, each of 2 vowels and 3
 consonants can be formed from the
 letters of the word DAUGHTER?
 30
 120
 360
 3600
28. The value of $\lim_{n \rightarrow \infty} \frac{1}{n} \left[\left(\frac{1}{2^n} \right) + \left(\frac{1}{2} \right) \left(\frac{1}{2^{n-1}} \right) + \left(\frac{1}{3} \right) \left(\frac{1}{2^{n-2}} \right) + \dots + \left(\frac{1}{n} \right) \left(\frac{1}{2} \right) \right]$ is
 0
 1
 e
 Does not exist

29. If 4 is a root of the equation $x^2 + ax - 12 = 0$, then the other root of the equation is

$$\text{If } x^2 + ax - 12 = 0 \text{ has a root } 4, \text{ then the other root is}$$

- [A] $a - 4$
[B] -2
[C] 3
[D] -3

30. If the roots of the equation $3x^2 - 5x + p = 0$ are equal then $p =$

$$\text{If } 3x^2 - 5x + p = 0 \text{ has equal roots, then } p = ?$$

- [A] $\frac{25}{6}$
[B] $\frac{25}{12}$
[C] $-\frac{25}{6}$
[D] $-\frac{25}{12}$

31. If $x - y = 3$ and $x + y \geq 9$, then the minimum value of x is

$$\text{If } x - y = 3 \text{ and } x + y \geq 9, \text{ then the minimum value of } x \text{ is}$$

- [A] 2
[B] 4
[C] 5
[D] 6

32. Total number of terms in the expansion of $(1 - x - x^2)^5$ is

$$(1 - x - x^2)^5 \text{ has } \text{how many terms?}$$

- [A] 9
[B] 10
[C] 11
[D] 12

33. The values of m for which exactly one root of the equation $x^2 - 2mx + m^2 - 1 = 0$ lies in the interval $(-2, 4)$ is

$$m \text{ such that exactly one root of } x^2 - 2mx + m^2 - 1 = 0 \text{ lies in } (-2, 4)$$

- [A] $(-3, -1)$
[B] $(3, 5)$
[C] $(-\infty, \infty)$
[D] $(-3, 5) \cup (3, 5)$

34. The equation $\sqrt{x+3} - 4\sqrt{x-1} + \sqrt{x+15} - 8\sqrt{x-1} = 2$ has

$$\sqrt{x+3} - 4\sqrt{x-1} + \sqrt{x+15} - 8\sqrt{x-1} = 2$$

- [A] no real root
[B] at least one real root
[C] exactly one real root
[D] infinitely many real root

35. The product of real roots of the equation $|2x + 3|^2 - 3|2x + 3| + 2 = 0$, is

$$|2x + 3|^2 - 3|2x + 3| + 2 = 0 \text{ has real roots whose product is}$$

- [A] 5
[B] $\frac{5}{2}$
[C] 2
[D] $\frac{2}{5}$

36. If three complex numbers are in Arithmetic progression, then they lie on

☞ If z_1, z_2, z_3 are in A.P., then z_1, z_2, z_3 lie on a circle or a straight line or an ellipse or none of the above.

- [A] a circle
[B] a straight line
[C] an ellipse
[D] None of the above

37. The circle $(x - 4)^2 + (y - 3)^2 = 9$ touches the

- [A] X-axis
[B] Y-axis
[C] Both the coordinate axes
[D] None of the coordinate axes

☞ The circle $(x - 4)^2 + (y - 3)^2 = 9$ touches the X-axis.

- [A] X-axis
[B] Y-axis
[C] Both the coordinate axes
[D] None of the coordinate axes

38. If $f(x) = \left(\frac{x}{1-|x|}\right)^{1/2024}$, then Domain of the function (D_f) is

☞ $f(x) = \left(\frac{x}{1-|x|}\right)^{1/2024}$ is defined for $x \in (-1, 1)$.

- [A] $\mathbb{R} - \{-1, 1\}$
[B] $(-\infty, 1)$
[C] $(-\infty, -1) \cup [0, 1)$
[D] None of the above

39. $f(x) = (\tan x^5)e^{(x^3 \operatorname{sgn} x^7)}$ is

☞ $f(x) = (\tan x^5)e^{(x^3 \operatorname{sgn} x^7)}$ is an odd function.

- [A] an odd function
[B] an even function
[C] neither even nor odd
[D] None of the above

40. The period of $f(x) = \left|\cos^5\left(\frac{x}{2}\right)\right|$ is

☞ The period of $f(x) = \left|\cos^5\left(\frac{x}{2}\right)\right|$ is π .

- [A] π
[B] 2π
[C] 3π
[D] $\frac{\pi}{2}$

41. If $f : \mathbb{R} \rightarrow \mathbb{R}$ be such that $f(x) = x - |x|$, where $[a]$ denotes the greatest integer less than or equal to a , then $f^{-1}(x)$ is

- [A] $\frac{1}{x - |x|}$
[B] $|x| - x$
[C] Not defined
[D] None of the above

☞ $f : \mathbb{R} \rightarrow \mathbb{R}$ be such that $f(x) = x - |x|$, where $[a]$ denotes the greatest integer less than or equal to a , then $f^{-1}(x)$ is $|x| - x$.

- [A] $\frac{1}{x - |x|}$
[B] $|x| - x$
[C] $|x| + x$
[D] $|x| - x$

42. $\lim_{x \rightarrow 0} \log_{\sin x} \sin 2x$ is

- [A] 1
[B] e
[C] e^2
[D] e^3

43. $f + g$ may be a continuous function if
 $f + g$ "İŞÜ;A;[i] İ"t; Òİt; Şİİ¹, "f

- [A] f is continuous and g is discontinuous
 f İ"t; &a} g İ"t; ÒÚ
[B] f is discontinuous and g is continuous
 f "İ"t; &a} g İ"t; ÒÚ
[C] f and g both are discontinuous
 $f * g$ İ;@;Ú Ò "İ"t; ÒÚ
[D] None of the above
İ;Şİ¹¹ ĞA;à>à[i] Ò>Ú

44. Number of points where
 $f(x) = \min\{|x-1|, |x+1| : x \in \mathbb{R}\}$ is not differentiable is

- $f(x) = \min\{|x-1|, |x+1| : x \in \mathbb{R}\}$ &[i] Ğ"Ò
[a]fP;[o]İt; "aA; >İ"màK, >Ú, Ğİ Ò [a]fP;[o]1 İ}J,à Ò^o
[A] 1
[B] 2
[C] 3
[D] 4

45. The coordinate of the focus of the parabola $2x^2 = -5y$ is

- $2x^2 = -5y$ "[<aV;[i]1 ĞÖ;àA;àİ İ¹ Ñà>àS; Ò^o
[A] $(-\frac{5}{8}, 0)$
[B] $(-\frac{5}{2}, 0)$
[C] $(0, -\frac{5}{8})$
[D] $(0, -\frac{5}{2})$

46. $\int_0^3 |x| dx =$

- [A] 0
[B] 1
[C] 2
[D] 3

47. $\int_1^e \frac{1}{x(1+\log x)^2} dx = ?$

- [A] $\frac{1}{2}$
[B] $\frac{1}{e}$
[C] $\frac{2}{e}$
[D] 0

48. The eccentricity of the hyperbola
 $x^2 - y^2 = a^2$ is

- $x^2 - y^2 = a^2$ ŞİàaV;[i]1 İ; İA;İft;à Ò^o
[A] 2
[B] $\sqrt{2}$
[C] $\sqrt{a}$
[D] a

49. The equation of xy plane is

- xy t;[i]1 İ³àA;10 Ò^o
[A] $x = 0$
[B] $y = 0$
[C] $z = 0$
[D] $x + y = 0$

50. Number of intersecting points of the conics
 $4x^2 + 9y^2 = 1$ and $4x^2 + y^2 = 4$ is

- $4x^2 + 9y^2 = 1$ &a} $4x^2 + y^2 = 4$ A;[>A; f[i]1 Ğáf[a]f¹ İ}J,à Ò^o
[A] 0
[B] 1
[C] 2
[D] 3

51. $\lim_{x \rightarrow 0} (1 + 3x)^{\frac{x+2}{x}} =$

- [A] e
[B] e^2
[C] e^4
[D] e^6

52. If $\frac{dx}{dy} = 0$, then the tangent to the curve $y = f(x)$ at the point (x, y) is

यदि $\frac{dx}{dy} = 0$ हो, तब (x, y) बिन्दु पर $y = f(x)$ वक्र की स्पर्श रेखा

- [A] parallel to x-axis
x-अक्ष के समानांतर
[B] parallel to y-axis
y-अक्ष के समानांतर
[C] passing through origin
मूल बिन्दु से होकर गुजरती
[D] None of the above
कोई नहीं

53. If v is the variance and σ is the standard deviation then

यदि v विचलन और σ मानक विचलन है, तब

- [A] $v = \frac{1}{\sigma^2}$
[B] $v = \frac{1}{\sigma}$
[C] $v = \sigma^2$
[D] $v^2 = \sigma$

54. Let A and B be two mutually exclusive events such that $P(A) = \frac{3}{8}$ and $P(B) = \frac{1}{3}$, then $P[(A \cup B)^c] =$

यदि A और B परस्पर अपेक्षित घटनाएँ हों और $P(A) = \frac{3}{8}$ और $P(B) = \frac{1}{3}$ हों, तब $P[(A \cup B)^c] = ?$

- [A] $\frac{17}{24}$
[B] $\frac{7}{24}$
[C] $\frac{13}{24}$
[D] $\frac{1}{24}$

55. The area bounded by the two curves $y^2 = x + 4$ and $x + 2y = 4$, is

$y^2 = x + 4$ और $x + 2y = 4$ द्वारा घेरित क्षेत्रफल

- [A] 9
[B] 18
[C] 36
[D] 72

56. The order of differential equation

$$\left(\frac{d^4y}{dx^4}\right)^3 - \frac{d^3y}{dx^3} = \sqrt{1 + \frac{dy}{dx}} \text{ is}$$

$$\left(\frac{d^4y}{dx^4}\right)^3 - \frac{d^3y}{dx^3} = \sqrt{1 + \frac{dy}{dx}} \text{ का क्रम}$$

- [A] 3
[B] 4
[C] 6
[D] 7

57. The integrating factor of the differential equation $x \log x \frac{dy}{dx} + y = \frac{2}{x} \log x$ is

$$x \log x \frac{dy}{dx} + y = \frac{2}{x} \log x$$

[A] x^2

[B] $\log x$

[C] $\frac{1}{x}$

[D] $\frac{1}{x^2}$

58. The rate of change of the function $y = f(x)$ w.r.t. x at the point x is

$$y = f(x)$$

[A] $f'(x)$

[B] $\frac{f'(x)}{2}$

[C] $2f'(x)$

[D] $\frac{f'(x)}{f(x)}$

59. $(\vec{a} \times \vec{b}) \times (5\vec{a} + 6\vec{b}) =$

[A] 0

[B] $a^2 + b^2$

[C] $a^2 + 5b^2$

[D] None of the above

60. Number of zeros at the end of the decimal representation of the number $100!$ is

$$100!$$

[A] 20

[B] 21

[C] 23

[D] 24

61. Number of diagonals in a convex n -gon is

$$n(n-1)$$

[A] $n(n-1)$

[B] $n(n-3)$

[C] $\frac{n(n-3)}{2}$

[D] $\frac{n(n+1)}{2}$

62. If the position vector of the points P and Q are $\vec{a}$ and $\vec{b}$ respectively, then $\vec{PQ}$ is

$$\vec{PQ} = \vec{b} - \vec{a}$$

[A] $\vec{a} + \vec{b}$

[B] $\vec{a} - \vec{b}$

[C] $\vec{b} - \vec{a}$

[D] $\vec{a} \times \vec{b}$

63. If $|\vec{a}| = 4$, $|\vec{b}| = 2\sqrt{3}$ and $|\vec{a} \times \vec{b}| = 12$, then the angle between the vectors $\vec{a}$ and $\vec{b}$ is

$$|\vec{a}| = 4, |\vec{b}| = 2\sqrt{3}, |\vec{a} \times \vec{b}| = 12$$

[A] $\frac{\pi}{3}$

[B] $\frac{\pi}{4}$

[C] $\frac{\pi}{6}$

[D] $\frac{\pi}{2}$

PART—II

(Islamic History and Culture, General English & General Knowledge)

- 71.** The third Caliph was
 ተቲሳህጋሪ ጋላብ ሰላም ስላሰጠ
 [A] Bilal ibn Rabah
 [B] Khalid ibn al-Walid
 [C] Uthman ibn Affan
 [D] Zayd ibn Haritha
- 72.** Insha' allah means
 ስንሰላም ስንሰላም ስንሰላም ስንሰላም
 [A] Glory be to Allah
 [B] If Allah wills
 [C] Praise be to Allah
 [D] As per Allah's wills
- 73.** According to Islam, after death
 ስንሰላም ስንሰላም ስንሰላም ስንሰላም
 [A] human beings will be resurrected
 [B] reward or punishment will be given
 [C] Both of the above
 [D] Nothing happens
- 74.** Sayings of Prophet Muhammad (PBUH) are called
 ስንሰላም ስንሰላም ስንሰላም ስንሰላም
 [A] Nasihat
 [B] Sifat
 [C] Akhlaq
 [D] Hadith
- 75.** The Holy Qur'an has _____ chapters.
 ስንሰላም ስንሰላም ስንሰላም ስንሰላም
 [A] 30
 [B] 99
 [C] 114
 [D] 786
- 76.** The shape of Kaaba inside Masjid al-Haram is like a
 ስንሰላም ስንሰላም ስንሰላም ስንሰላም
 [A] Cube
 [B] Sphere
 [C] Cylinder
 [D] Cone
- 77.** Prophet Muhammad (PBUH) was a
 ስንሰላም ስንሰላም ስንሰላም ስንሰላም
 [A] Translator
 [B] Merchant
 [C] Peasant
 [D] Mason
- 78.** Who among the following prophets was born miraculously?
 ስንሰላም ስንሰላም ስንሰላም ስንሰላም
 [A] Moses
 [B] Jesus
 [C] Yaqub
 [D] Yusuf
- 79.** At the beginning of any task, Muslims say
 ስንሰላም ስንሰላም ስንሰላም ስንሰላም
 [A] bismillah
 [B] inshaallah
 [C] mashaallah
 [D] subhanallah
- 80.** The city of Madina was known in the past as
 ስንሰላም ስንሰላም ስንሰላም ስንሰላም
 [A] Taif
 [B] Tabuk
 [C] Yathrib
 [D] Dammam

81. What did Allah (SWT) command the angels to do to Adam (AS)?

"àÀÒ (ÎÒà>àx *Úà tjàÚà°à) "àf³ ("à-)&¹ Š[tj éóij¹Átjáf¹ Aja "àifÁ Aji¹[ái°>?

- [A] Test his patience
- [B] Prostate
- [C] Degrade
- [D] Bring him food

82. Where did Adam (AS) and Hawwa reside before coming to earth?

Š[=mâtj "àÎà¹ "àìK "àf³ ("à-) * Òà*Úà éAja=àÚ =àAjt>?

- [A] Sahara
- [B] Jahannam
- [C] Madinah
- [D] Jannah

83. As a young boy Prophet Muhammad (SAW) used to work as a

éáàij m°Aji mÚjÎ >mà ³Òà´f (Îà-) éAja> Aja \ Aji¹tj>?

- [A] Merchant
- [B] Scientist
- [C] Trader
- [D] Shepherd

84. What is the relation of Aisha (RA) with Prophet Muhammad (SAW)?

Òm¹tj ³Òà´f (Îà-) &¹ Îà= "àÚÁà (¹à-) &¹ Î´ŠAji Aja?

- [A] Siblings
- [B] Husband and wife
- [C] Father and daughter
- [D] None of the above

85. What is the meal to break the fast called?

é¹à \à @jàRjà¹ Jàma¹ìAji Aja m°?

- [A] Suhoor
- [B] Sadaqah
- [C] Tarawih
- [D] Iftar

86. During Ramadan, Muslims refrain from which of the following?

¹³ \à> ³àî Î ³Î°³à>¹à [>ìì¹ éAja>[ij é=ìAji [m¹tj =àìAji?

- [A] Sleeping
- [B] Speaking
- [C] Eating and drinking
- [D] Working out

87. What is the meaning of "Allahu Akbar" in English?

Òj¹[\ìtj "àÀàx "àAji¹'&¹ "= Aja?

- [A] Allah is the most praiseworthy
- [B] Allah is the most merciful
- [C] Allah is the greatest
- [D] None of the above

88. What do we say when we hear the name of Prophet Muhammad?

>mà ³Òà´f¹ >à³ Çj>ì° "à³¹à Aja m[°?

- [A] Salallahu Alayhi Wasallam
- [B] Sadaqallahul Azim
- [C] Radi Allah Anhu
- [D] None of the above

89. What is the meaning of the term 'Dua' in Arabic?

"à¹[mìtj f "à Àì¹¹ "= Aja?

- [A] Supplication
- [B] Charity
- [C] Prayer
- [D] Fasting

90. How many times does the term 'Allahu Akbar' appear in the call to prayer (Adhan)?

"àmàì> Aji¹mà¹ "àÀàx "àAji¹' Áj[ij &ìîà?

- [A] 2
- [B] 4
- [C] 5
- [D] 6

91. Identify the **correct** alternative :

- [A] Misanthropist — one who hates or distrusts mankind
- [B] Misogynist — one who hates men
- [C] Atheist — one who believes in the existence of God
- [D] Philanthropist — one who writes life story of another person

92. She dealt with the problem of her client so _____, that even the judge was _____.

Fill in the blanks with the **correct** alternatives.

- [A] agreeably, satisfied
- [B] inspiringly, appreciating
- [C] diligently, happy
- [D] dexterously, impressed

93. A _____ of arrows. Fill in the blank with the appropriate collective noun.

- [A] quiver
- [B] fleet
- [C] swarm
- [D] cluster

94. Select the **correct** sentence from the given alternatives :

- [A] The convict was hung this morning.
- [B] These houses are for the poor to live.
- [C] Neither of the books were interesting.
- [D] What is the time by your watch?

95. A collection of poems or other pieces of writing is called

- [A] analogy
- [B] anthology
- [C] philology
- [D] cryptology

96. LED stands for what?

LED 3àì> Aà?

- [A] Light Emitting Device
- [B] Low Emitting Diode
- [C] Light Electronic Diode
- [D] Light Emitting Diode

97. Computer is connected to Internet by which device?

Aj[Šl;ia¹ ëAà> ™ì"¹ 3à<ì³ Òàia¹>ìi¹ îàì= î}™vii Òú?

- [A] Modem
- [B] Mouse
- [C] CPU
- [D] RAM

98. Which is the smallest planet in our solar system?

"à³àìf¹ ëîi¹\Kìt;¹ îàìiù éáai; KÒ ëAà>[i;?

- [A] The Earth
- [B] Mars
- [C] Mercury
- [D] Saturn

99. The first British Viceroy of India was

@à¹ìt;¹ Š=³ [a[i;À @àÒî¹ú [áì°>

- [A] Lord Curzon
- [B] Lord Irwin
- [C] Lord Canning
- [D] Lord Tom

100. Which of the following is **not** a feature of the Indian Constitution?

[>ìì¹ ëAà>[i; @à¹t;àú î}[a<àì>¹ ía[ÀÈ; >ú?

- [A] Parliamentary form of Government
- [B] Independence of Judiciary
- [C] Presidential form of Government
- [D] Federal Government

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