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$$\Rightarrow x^3 - 12x$$

$$= x^3 - 6x^2 + 12x$$

$$= -72x + 60x^3 + 12x$$

ENGINEERING MATHEMATICS

1. If $x = -9$ is a root of $\begin{vmatrix} x & 3 & 7 \\ 2 & x & 2 \\ 7 & 6 & x \end{vmatrix} = 0$, then the other two roots are

- (A) 3, 7
- (B) 2, 7
- (C) 3, 6
- (D) 2, 6

2. Matrix $[1 \ 2] \begin{bmatrix} -2 & 5 \\ 3 & 2 \end{bmatrix}^2$ is equal to

- (A) $[1 \ 2 \ 2]$
- (B) $[2 \ 3]$
- (C) $[22]$
- (D) none of these

$$\begin{bmatrix} -2 & 10 \\ 3 & 4 \end{bmatrix} \begin{bmatrix} 1 & 2 \end{bmatrix} \begin{bmatrix} 8 \\ 7 \end{bmatrix} \begin{bmatrix} 8 & 14 \end{bmatrix}$$

3. If A and B are two matrices such that $AB = B$ and $BA = A$, then $A^2 + B^2$ is equal to

- (A) $2AB$
- (B) $2BA$
- (C) $A + B$
- (D) AB

$$\begin{aligned} A \cdot A &= A \cdot B \cdot A \\ &= A \cdot B \cdot A \\ &= B \cdot A \\ &= B \cdot A \cdot B \\ &= B \cdot A \cdot B \\ &= A \cdot B \\ &= A \end{aligned}$$

4. Let $f(x) = \int_1^x \sqrt{2-t^2} dt$. Then the real roots of

the equation $x^2 - f'(x) = 0$ are

- (A) ± 1
- (B) $\pm \frac{1}{\sqrt{2}}$
- (C) $\pm \frac{1}{2}$
- (D) 0 and 1

5. If

$$f(0) = 2, f'(x) = f(x), \varphi(x) = x + f(x) \text{ then } \int_0^1 f(x) \varphi(x) dx,$$

is

- (A) e^2
- (B) $2e^2$
- (C) $2e$
- (D) $2e^{-\frac{3}{2}}$

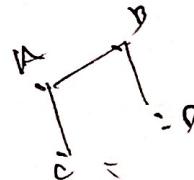
6. The value of the Integral $\int_{-1}^1 \frac{d}{dx} \left(\tan^{-1} \frac{1}{x} \right) dx$

is

- (A) $\frac{\pi}{2}$
- (B) $\frac{\pi}{4}$
- (C) $-\frac{\pi}{2}$
- (D) none of these.

7. The value of k for which the points A (1, 0, 3), B (-1, 3, 4), C (1, 2, 1) and D (k, 2, 5) are coplanar are

- (A) 1
- (B) 2
- (C) 0
- (D) -1



8. If \vec{a} and \vec{b} are two unit vectors such that $\vec{a} + 2\vec{b}$ and $5\vec{a} - 4\vec{b}$ are perpendicular to each other, then the angle between \vec{a} and \vec{b} is

- (A) $\frac{\pi}{4}$
- (B) $\frac{\pi}{3}$

$$(\vec{a} + 2\vec{b}) \cdot (5\vec{a} - 4\vec{b}) = 0$$

(C) $\cos^{-1}\left(\frac{1}{\sqrt{3}}\right)$

(D) $\cos^{-1}\left(\frac{2}{7}\right)$

9. Four persons are selected at random from a group of 3 men, 2 women and 4 children. The probability that exactly two of them are children is

(A) $\frac{9}{21}$

(B) $\frac{10}{23}$

(C) $\frac{1}{2}$

(D) $\frac{10}{21}$

10. The median of the variables $x+4$, $x-\frac{7}{2}$,

$$x-\frac{5}{2}, x-3, x-2, x+\frac{1}{2}, x-\frac{1}{2}, x+5 \quad (x>0)$$

is

(A) $x-3$

(B) $x-2$

(C) $x+\frac{5}{4}$

(D) $x-\frac{5}{4}$

11. In Simpson's one-third rule the curve $y=f(x)$ is assumed to be a

(A) circle

(B) parabola

(C) hyperbola

(D) none of these

12. Let $f(0)=1$, $f(1)=2.72$, then the Trapezoidal rule gives approximate value of $\int_0^1 f(x)dx$ is

(A) 3.72

(B) 1.86

(C) 1.72

(D) 0.86

13. The order and degree of the differential equation of all tangent lines to the parabola $y^2 = 4x$ is

(A) 2, 2

(B) 3, 1

(C) 1, 2

(D) 4, 1

14. The differential equation of $y = ae^{bx}$ (a and b are parameters) is

(A) $yy_1 = y_2^2$

(B) $yy_2 = y_1^2$

(C) $yy_1^2 = y_2$

(D) $yy_2^2 = y_1$

$$y = a e^{bx}$$

$$\frac{dy}{dx} = ab e^{(b-1)x}$$

15. The solution of

$$25\frac{d^2y}{dx^2} - 10\frac{dy}{dx} + y = 0, \quad y(0) = 1, \quad y(1) = 2e^{\frac{1}{5}}$$

(A) $y = e^{5x} + e^{-5x}$

(B) $y = (1+x)e^{5x}$

(C) $y = (1+x)e^{\frac{x}{5}}$

(D) $y = (1+x)e^{-\frac{x}{5}}$

$$25D^2 - 10D + 1 = 0$$

$$A = \frac{1}{2} \times \frac{5}{2} \times \frac{5}{2}$$

$$A = \frac{25}{8}$$

$$A = \frac{1}{2} \times \frac{2}{\pi} \times \frac{2}{\pi}$$

$$A = \frac{2}{\pi^2}$$

16. The Integrating Factor of the Differential

Equation $3x \log_e x \frac{dy}{dx} + y = 2 \log_e x$ is given by

- (A) $(\log_e x)^3$
- (B) $\log_e(\log_e x)$
- (C) $\log_e x$
- (D) $(\log_e x)^1$

17. The area included between the parabola $y^2 = 4x$ and $x^2 = 4y$ is

- (A) $\frac{8}{3}$ sq. units
- (B) 8 sq. units
- (C) $\frac{16}{3}$ sq. units
- (D) 12 sq. units

$$18. \frac{1}{3D^2 - 4} (\cos 3x) =$$

- (A) $\frac{\cos 3x}{31}$
- (B) $\cos 3x$
- (C) $-\frac{\cos 3x}{31}$
- (D) none of these.

19. Particular Integral of the differential equation $(D^2 + 2D - 1)y = 3e^{2x}$ is

- (A) $\frac{3}{7}e^{2x}$
- (B) $\frac{3}{8}e^{2x}$
- (C) $\frac{1}{7}e^{2x}$
- (D) e^{2x}

20. If $g(x, y) = \frac{x^3 + y^3}{\sqrt{x+y}}$, the value of k so that

- $x \frac{\partial g}{\partial x} + y \frac{\partial g}{\partial y} = kg(x, y)$ hold is
- (A) $\frac{1}{2}$
 - (B) $\frac{3}{2}$
 - (C) $\frac{5}{2}$
 - (D) -1

BASIC ELECTRICAL AND ELECTRONICS

21. For transfer of maximum power, the resistance between the load resistance R_L and internal resistance R_{int} of the voltage source is

- (A) $R_L = 2 R_{int}$
- (B) $R_L = 1.5 R_{int}$
- (C) $R_L = R_{int}$
- (D) none of these

22. In case of liquids, Ohm's law is

- (A) fully obeyed
- (B) partially obeyed
- (C) there is no relation between current and p.d.
- (D) none of these

23. The lifting power of an electromagnet is

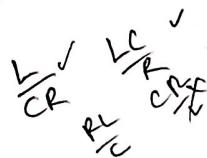
- (A) directly proportional to the square of the flux density
- (B) inversely proportional to area of pole
- (C) directly proportional to the absolute permeability
- (D) inversely proportional to the flux density

24. An alternating voltage source v is responsible to flow current i through a resistor of

- resistance R . If peak value of current is I_m , then power dissipated is
 ✓(A) $v i \times (\text{power factor})$
 (B) $I_m^2 R$
 (C) both (a) and (b)
 (D) none of these

25. At parallel resonance, the circuit offers impedance equal to

- (A) L/CR
 (B) LC/R
 (C) RL/C
 (D) $C\bar{R}/L$



26. Magnetic materials that have high retentivity have a
 (A) narrow hysteresis loop
 (B) circular hysteresis loop
 (C) nearly square hysteresis loop
 (D) none of these

27. An alternating voltage $v = 200 \sin 314t$ is applied to a device which offers an ohmic resistance of 20Ω to the flow of current in one direction while entirely preventing the flow of current in opposite direction. Then average value of current is

- (A) 5 A
 (B) 3.18 A
 (C) 1.57 A
 (D) 1.1 A

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28. Induction Wattmeter can measure

- (A) A.C. power only
 (B) D.C. power only
 (C) both A.C. and D.C. power
 (D) none of these

29. The output power of any electrical motor is taken from the

- (A) armature
 (B) field
 ✓(C) coupling mounted on the shaft
 (D) frame of the motor

30. High voltage DC machines use

- (A) lap winding
 (B) wave winding
 (C) either lap or wave winding
 (D) none of these

31. A transformer has full load copper loss of 400 W. The copper loss at half full-load will be
 ✓(A) 200 W
 ✓(B) 100 W
 (C) 50 W
 (D) none of these

32. The steel used for transformer core has
 (A) high silicon steel
 (B) high permeability
 (C) low hysteresis
 ✓(D) all of these

33. If the slip of a 3-phase induction motor increases, the power factor of the rotor circuit
 ✓(A) is increased
 (B) is decreased
 (C) remains unchanged
 (D) none of these

34. An overexcited synchronous motor behaves as
 (A) a resistor
 (B) an inductor
 ✓(C) a capacitor
 (D) none of these

35. When the reverse voltage of a semiconductor p-n junction increases from 5 V to 10 V,
 the depletion layer
 ✓(A) becomes larger
 (B) becomes smaller
 (C) is unaffected
 ✓(D) breaks down.

36. The peak inverse voltage (PIV) of diodes in a rectifier using centre-tap transformer is
 ✓(A) V_m
 (B) $2 V_m$
 (C) $3 V_m$
 (D) none of these.

37. As the temperature of a transistor goes up, the base-emitter resistance
 (A) decreases

- (B) increases
 (C) remains the same
 (D) none of these.

38. Thevenin's theorem is applicable to

- (A) BJT
 (B) FET
 (C) both (A) and (B)
 (D) none of these.

39. TRIAC is a

- (A) unidirectional triggering element
 (B) bidirectional triggering element
 (C) unidirectional switching element
 (D) bidirectional Switching element

40. SCRs can be used for the speed control of

- (A) AC motors
 (B) DC motors
 (C) both (A) and (B)
 (D) none of these

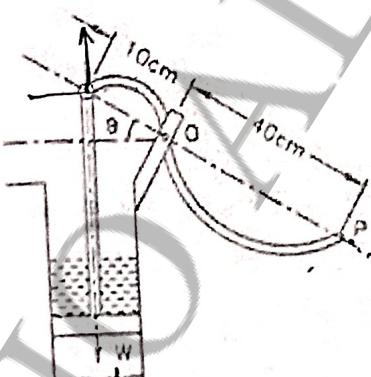
ENGG. MECHANICS AND STRENGTH OF MATERIALS

41. Four forces P , $2P$, $3P$ and $4P$ act along the sides of a square taken in order. The resultant force is:

- (A) zero
 (B) $2.828 P$
 (C) $2 P$
 (D) $2.236 P$



42. A tube-well hand-pump is used to lift water as shown below. Determine the force P required to be applied at the end of the handle to raise a water of weight $W = 120 \text{ N}$ when $\theta = 60^\circ$.

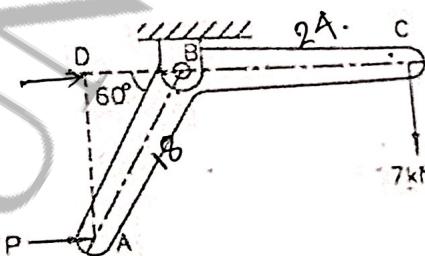


- (A) 15 kN
 (B) 10 kN
 (C) 25 kN
 (D) 20 kN

43. Identify the wrong statement in the context of couple, moment and torque:

- (A) The moment of a couple is called as torque
 (B) The sum of forces forming a couple in any direction has a definite non-zero value
 (C) Two parallel forces equal in magnitude but opposite in direction and separated by a finite distance is said to form a couple
 (D) Moment of a force about any point is defined as the turning tendency of the force about that point

44. A bell crank lever ABC is pivoted at B and carries a weight of 7 kN at C. Determine the horizontal force 'P' necessary to prevent turning of the lever. Take AB = 18 cm, BC = 24 cm. Neglect weight of lever.



$$7 \times 24 = P \cos 60^\circ$$

- (A) 11.78 kN
 (B) 21.78 kN
 (C) 20.78 kN
 (D) 10.78 kN

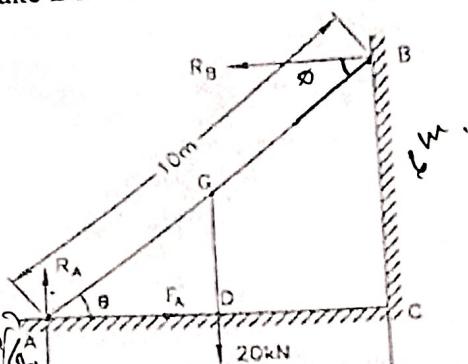
45. The curve that an idealized hanging chain or cable assumes under its own weight when supported only at its ends:

- (A) a parabola
 (B) a hyperbola
 (C) a catenary
 (D) an ellipse

46. A uniform ladder of length 10 m and weighing 20 kN is placed against a smooth

$$\begin{aligned} 8.6 \times 1.1 &= \\ 1.44 &= \\ 3.44 &= \\ 0.3 &= \\ \sqrt{4+1} &= \\ 2 &= \\ 2+0.25 &= \\ 2.25 &= \end{aligned}$$

vertical wall as shown in figure. Find the value of R_B if the ladder is just about to slip. Take BC = 6 m.



- (A) 23.33 kN
 (B) 20.35 kN
 (C) 33.33 kN
 (D) 13.33 kN

$$R_B \cos \theta =$$

$$\frac{20}{\sqrt{10^2 - 8^2}} = \frac{20}{\sqrt{36}} = \frac{20}{6} = \frac{10}{3}$$

47. A man holds a book weighing 10 N between both of his hands and keeps it free from falling by pressing both hands against the book with a force of 25 N each. The coefficient of friction between the book and his hands will be:
 (A) 0.1
 (B) 0.2
 (C) 0.4
 (D) 0.8

48. A heavy block of mass 'm' is slowly placed on a horizontal conveyor belt moving with a speed 'v'. If the co-efficient of friction between the block and the belt is ' μ ', the block will slide on the belt through a distance of:

- (A) $v/\mu g$
 (B) $(v/\mu g)^2$
 (C) $v^2/2\mu g$
 (D) $v/2\mu g$



49. Identify the wrong statement/statements
 (A) For cylinders and prisms, the CG lies on the axis at half the height from the base

$m \cdot g$

(B) For cones and pyramids, the CG lies at one-fourth of the height on the axis from the base

(C) The CG of a triangle lies at the point of intersection of altitudes and its distance is $2h/3$ from the base, where 'h' is the height of the triangle

(D) The centroid of a semi-circle lies on the radius perpendicular to the base (diameter) at a distance $4r/3\pi$; where 'r' is the radius of the semi-circle

50. A wheelbarrow is an example of a class lever

- (A) first
 (B) second
 (C) third
 (D) fourth

51. To compress a liquid by 10% of its original volume, the pressure required is $2 \times 10^5 \text{ N/mm}^2$. Then the bulk modulus of the liquid is-

- (A) $2 \times 10^5 \text{ N/mm}^2$
 (B) $2 \times 10^6 \text{ N/mm}^2$
 (C) $2 \times 10^7 \text{ N/mm}^2$
 (D) $2 \times 10^8 \text{ N/mm}^2$

$$\frac{\Delta V}{V_0} = 0.1$$

52. Auxetic materials have

- (A) Poisson's ratio greater than 0.5
 (B) Poisson's ratio less than 0.5
 (C) Poisson's ratio equal to zero
 (D) negative Poisson's ratio

53. A metallic rod breaks when the strain produced in it is 0.2%. What should be the stress on the area of cross-section to support a load of 10^4 N , if Young's modulus of the material of the rod is $7 \times 10^9 \text{ N/mm}^2$?

- (A) $9.52 \times 10^{-6} \text{ N/mm}^2$
 (B) $5.16 \times 10^{-5} \text{ N/mm}^2$
 (C) $7.14 \times 10^{-4} \text{ N/mm}^2$
 (D) $3.67 \times 10^{-7} \text{ N/mm}^2$

54. Which of the following statements is/are incorrect:

$$F = ma$$

$$N^2 = 2as$$

$$N^2/2$$

A cotter pin is likely to fail due to:

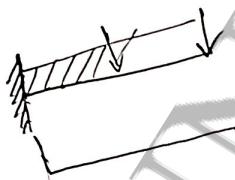
- (A) torsion
- (B) crushing
- (C) double shear
- (D) bending

55. The rivets of a double cover plate butt joint are likely to fail due to:

- (A) torsion
- (B) single shear
- (C) double shear
- (D) bending

56. A tapering bar (having diameters of end sections as d_1 and d_2 respectively) and a bar of uniform cross-section 'd' have the same length 'L' are subjected to same axial pull 'P'. Both the bars will have the same extension if 'd' is equal to:

- (A) $d_1 d_2$
- (B) $(d_1 + d_2)/4$
- (C) $(d_1 + d_2)/2$
- (D) $(d_1 d_2)^{1/2}$



57. The nature of the shear force diagram (SFD) and bending moment diagram (BMD) of a cantilever beam having uniformly distributed load over its entire span will respectively be:

- (A) straight line and parabolic in nature
- (B) parabolic and cubic in nature
- (C) parabolic and hyperbolic in nature
- (D) straight line and cubic in nature

58. A simply supported beam 3 meters long carries a point load 'W' at its center. If the slope at the ends is not to exceed 1 degree (0.01745 radian), the limiting deflection at the center of the beam will be nearest to:

- (A) 8.75 mm
- (B) 17.5 mm
- (C) 35 mm
- (D) 70 mm

59. Pick up the wrong statement/s in connection with columns and struts:

- (A) Buckling load for a column depends upon its material, end conditions and the ratio between length to lateral dimension
- (B) A member in any position other than vertical, subjected to an axial compressive load is known as strut
- (C) A pin-jointed or hinged end is restrained both in position and direction
- (D) Slenderness ratio of a column is the ratio of its length to the least radius of gyration

60. Polar moment of inertia

- (A) applies to masses, whereas moment of inertia is applicable to areas only
- (B) is the moment of inertia for an area with respect to a line or axis parallel to centroidal axis
- (C) is the moment of inertia for an area with respect to a line or axis lying outside the plane of the area
- (D) is the moment of inertia for an area with respect to a line or axis perpendicular to the plane of the area

COMPUTER APPLICATIONS

61. The user who maintain personal data base by using readymade programme packages that provide easy-to-use menu or graphics-based interface, known as:

- (A) Casual end user
- (B) Native end user
- (C) Sophisticated end user
- (D) Standalone user

62. In a DBMS, where the participating DBMSs are loosely coupled and have a degree of local autonomy is known as:

- (A) Distributed DBMS
- (B) Federated DBMS
- (C) Object oriented DBMS
- (D) Centralized DBMS

63. In federated DBMS, the participating DBMS are loosely coupled and have a degree of local autonomy



- (A) Query processor
- (B) Storage manager
- (C) Transaction manager
- (D) Functional operation

64. Communication between a computer and a keyboard involves _____ transmission

- (A) Automatic
- (B) Half-duplex
- (C) Full-duplex
- (D) Simplex

65. Which of the following is false with respect to TCP?

- (A) Connection-oriented
- (B) Process-to-process
- (C) Transport layer protocol
- (D) Unreliable

66. Physical or logical arrangement of a network is called _____

- (A) Routing
- (B) Networking
- (C) Topology
- (D) Control

67. Network layer firewall works as a _____

- (A) frame filter
- (B) packet filter
- (C) signal filter
- (D) content filter

68. Coaxial cable consists of _____ concentric copper conductors

- (A) 1
- (B) 2
- (C) 3
- (D) 4

69. The output of the following C code will return?

```
#include<stdio.h>
int main()
{
    printf("IndiaBIX");
```

```
    main();
    return 0;
}
```

- (A) Infinite times
- (B) 32767 times
- (C) 65535 times
- (D) Till stack overflows

70. The output of the following C code will return:

```
#include<stdio.h>
int i=0;
int fun();
int main()
{
    while(i)
    {
        fun();
        main();
    }
    printf("Hello\n");
    return 0;
}
int fun()
{
    printf("Hi");
}
```

- (A) Hello
- (B) Hi Hello
- (C) Hi
- (D) No output

71. Which of the following correctly shows the hierarchy of arithmetic operations in C?

- (A) / + * -
- (B) * - / +
- (C) + - / *
- (D) / * + -

72. Which of the following is the correct usage of conditional operators used in C?

- (A) a>b? c=30: c=40; ✗
- (B) a>b? c=30; ✗
- (C) max = a>b? a>c? a:c: b>c? b:c
- (D) return (a>b)? (a: b) .

73. Which of the following are unary operators in C?

- (i) !
 - (ii) `Sizeof()`
 - (iii) ~
 - (iv) &&
- (A) (i) (ii)
 - (B) (i) (iii) ↵
 - (C) (ii) (iv)
 - (D) (i) (ii) (iii)

74. In the layer hierarchy, as the data packet moves from the upper to the lower layers, headers are:

- (A) removed
- (B) added
- (C) re-arranged
- (D) modified

75. The number successful accesses to memory stated as a fraction is called as:

- (A) Hit rate
- (B) Miss rate
- (C) Success rate
- (D) Access rate

76. The format which is usually used to store data is:

- (A) BCD
- (B) Decimal
- (C) Octal
- (D) Hexadecimal

77. The small extremely fast, RAM's are called:

- (A) Heaps
- (B) Stacks
- (C) Accumulators
- (D) Cache

78. The control unit controls other units by generating:

- (A) Control signals
- (B) Timing signals
- (C) Transfer signals

(D) Command signals

79. Which bus structure is usually used to connect I/O devices

- (A) Single bus
- (B) Multiple bus
- (C) Star bus
- (D) Rambus

80. The time delay between two successive initiations of memory operation is called:

- (A) Memory access time ↵
- (B) Memory search time —
- (C) Memory cycle time —
- (D) Instruction delay

81. Who was the founder of Asaria Sect
Asaria সম্প্রদায়ের প্রতিষ্ঠাতা কে ?

- (a) Rabia Basri
- (b) Wasil-bin-Ata
- (c) Wasil-bin-Ata
- (d) Hassan-al-Ashri

82. Historian Wemer Says that "As a great magnet to draw the Muslim World" about ঐতিহাসিক Wemer বলেছেন যে এটি ইসলামিক
বিশ্বকে চুম্বকের মত আকর্ষণ করে। কোন ঘটনা?

- (a) Zakat
- (b) Salat
- (c) Hajj
- (d) Touhid

83. Taurat related with the prophet
Taurat কিতাব কোন নবীর সহিত সংযুক্ত?

- (a) Daud
- (b) Musa
- (c) Isha
- (d) Sulaiman

84. The term "Islam" means —
ইসলাম শব্দের অর্থ কী ?

- (a) Submission (আর্তসম্পর্ণ)
- (b) Peace (শান্তি)

- (c) Fortitude (সহিষ্ণুতা)
(d) Thankfulness (শুভঙ্গতা)

85. The hijrat is

Hijrat হল--

- (a) The emigration of the early Muslim Community from Makkah to Medina
(আদি পর্বে মুসলমানদের সর্বা থেকে মদিনা)
(b) The annual pilgrimage to Mecca
(তীর্থযাত্রীদের বাংসরিক মক্কা গমন)
(c) The written reports of how Muhammand lived his life
(হজরত মুহাম্মাদের জীবন সম্পর্কে লিখিত বিবরণী)
(d) The term of Islamic law
(ইসলামিক আইনের অংশ বিশেষ)

86. What is the literary meaning of Khalifa?

Khalifa শব্দের আক্ষরিক অর্থ কী?

- (a) The Deputy (সহকারী)
(b) The Successor (উত্তরাধিকারী)
(c) Ruler of Khalifat (খিলাফতের প্রশাসক)
(d) Both (a) and (b)

87. When did the tragedy of Karbala occur?

Karbala-র মর্মান্তিক ঘটনা কখন ঘটেছিল?

- (a) 10th Muharram, 580 A.D.
(b) 10th Muharram, 680 A.D.
(c) 10th Muharram, 780 A.D.
(d) 10th Muharram, 570 A.D.

88. Who was called the king of the Arab?

কাকে আরবের রাজা বলা হয়?

- (a) Harun-ar-Rashid
(b) Khalifa Umar
(c) Muyabiyah
(d) Al-Mamum

89. What is the meaning of the word 'Baghdad'?

বাগদাদ শব্দটির অর্থ কী ?

- (a) City of peace (শাস্তির নগরী)
(b) The Gift of God (আল্লাহর দান)

- (c) City of prosperity (উন্নয়নের নগরী)
(d) Well Communication (সুগম যোগাযোগ)

90. Where was the first capital of Abbasids
আবাসীয়দের প্রথম রাজধানী কোথায় অবস্থিত ছিলো?

- (a) Baghdad
(b) Anbar
(c) Kufa
(d) Damascus

91. Chopin music when he was three.

- (a) can read
(b) could read
(c) can to read
(d) can't read

92. I born in 1992.

- (a) was
(b) am
(c) were
(d) is

93. I speak Hebrew and French but Ann....

- (a) don't
(b) doesn't✓
(c)speaks
(d)doesn't speaks

94. We..... the flight tickets yet.

- (a) don't book
(b) have booked
(c)haven't booked
(d)didn't book

95. Is Sabina..... Shabnam?

- (a) tall as
(b) as tall as
(c)taller than
(d) more tall

96. I smoke when I was 20.

- (a) couldn't

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- (b) wouldn't
(c)use to
(d)used to

97. Is that purse.....?

- (a) to you
(b) your
(c)yours
(d) you

98. He was with ----- European.

- (a) a
(b) an
(c)at
(d) on

99. He looks ----- his old parents with a lot of care.
(a) of
(b) before
✓(c)after
(d) over

100. The famine took place ----- account of the failure of the rains.

- (a) on
(b) in
(c)at
(d) for