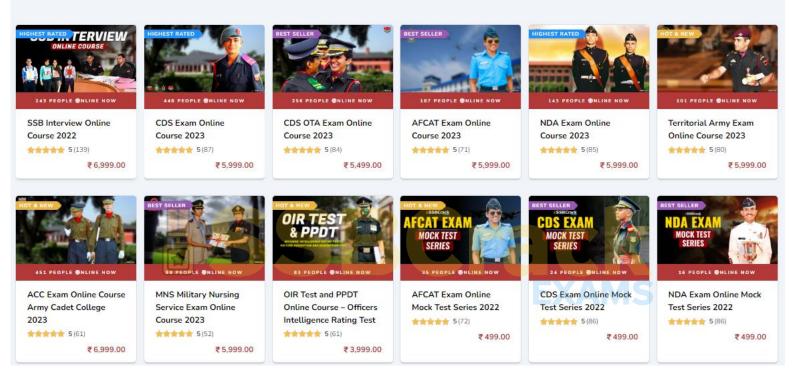


Courses

 ACC
 AFCAT
 AIRMEN
 CAPF
 CDS EXAM
 INET OFFICER
 MNS
 MOCK TEST
 NDA EXAM
 PC(SL)
 SCO
 SSB INTERVIEW
 TERRITORIAL ARMY

 (1)
 (1)
 (2)
 (1)
 (1)
 (3)
 (1)
 (1)
 (2)
 (1)





If $z\overline{z} = |z + \overline{z}|$, where z = x + iy, $i = \sqrt{-1}$, 5. then the locus of z is a pair of : (a) straight lines rectangular hyperbolas **(b)** parabolas (d) circles If 1! + 3! + 5! + 7! + ... + 199! is divided by 24, what is the remainder ? (a) 3 (b) 6 6. (d) 9 What is the value of $\sqrt{12+5i} + \sqrt{12-5i}$, where $i = \sqrt{-1}$? (13) 24 (b) 25 $5\sqrt{2}$ $5(\sqrt{2}-1)$ (d) 7. 4.23 1 If A = |2|, then what is the value of 3 det(I + AA'), where I is the 3×3 identity matrix? (a) 15 (b) 6 (3 - A)DFTK-S-MTH

2.

3.

If A, B and C are square matrices of order 3 and det(BC) = 2 det(A), then what is the value of $det(2A^{-1}BC)$?

ς

(a)

(b) 8

16

(c)

If the nth term of a sequence is $\frac{2n+5}{7}$, then what is the sum of its first 140 terms ?

(a) 2840 (b) 2780

(d) 5700

Let A be a skew-symmetric matrix of order 3. What is the value of $det(4A^4) - det(3A^3) + det(2A^2) - det(A) + det(-I)$ where I is the identity matrix of order 3?

(c) 1

-1

(d) 2

If $A = \begin{bmatrix} 0 & 3 & 4 \\ -3 & 0 & 5 \\ -4 & -5 & 0 \end{bmatrix}$, then which one of the following statements is correct? A² is symmetric matrix with det(A²) = 0. (b) A² is symmetric matrix with det(A²) $\neq 0$.

- (A² is skew-symmetric matrix with $det(A^2) = 0$.
- (d) A^2 is skew-symmetric matrix with $det(A^2) \neq 0$.
- If $A = \begin{bmatrix} 2 & 0 & 0 \\ 0 & 3 & 0 \\ 0 & 0 & 4 \end{bmatrix}$, then which of the following

statements are correct?

- 1. Aⁿ will always be singular for any positive integer n.
 - 2. Aⁿ will always be a diagonal matrix for any positive integer n.
- 3. Aⁿ will always be a symmetric matrix for any positive integer n.

Select the correct answer using the code given below :

- and 2 only
- (b) 2 and 3 only
 -) 1 and 3 only
- (d) 1, 2 and 3
- 10. If (a + b), 2b, (b + c) are in HP, then which one of the following is correct ?

1 C THEN & C.L. JUT + T. ANDA

(a) a, b and c are in AP

b a-b, b-c and c-a are in AP

- a, b and c are in GP
- (d) a-b, b-c and c-a are in GP

DFTK-S-MTH

- 11. Let $t_1, t_2, t_3 \dots$ be in GP. What is $(t_1 t_3 \dots t_{21})^{11}$ equal to? (a) t_{10} (c) t_{11} (d) t_{11}^2
 - Which one of the following is a square root of $-\sqrt{-1}$?

क एक मामीका

(a) 1 + i

12.

(b) $\frac{1-\sqrt{2}}{\sqrt{2}}$

(d)

- 13. What is the maximum number of points of intersection of 10 circles ?
 - (a) 45
 60
 (c) 90

120

(d)

- 14. A set S contains (2n + 1) elements. There are 4096 subsets of S which contain at most n elements. What is n equal to ?
 - (a) 5 (b) 6 (c) 7 (d) 8

(5 - A)

•

 $x^2 + 3x x - 1 x + 3$ If $A = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$, then what is If 18. x - 3 $= ax^4 + bx^3 + cx^2 + dx + e$ $23A^3 - 19A^2 - 4A$ equal to ? then what is the value of e ? Null matrix of order 3 -1 (H) Identity matrix of order 3 0 (b) $\begin{bmatrix} 2 & 0 & 0 \\ 0 & 2 & 0 \\ 0 & 0 & 2 \end{bmatrix}$ (c) (c) 1 A A PRATE PLATE 2 (d) (d) $\begin{bmatrix} 7 & 0 & 0 \\ 0 & 7 & 0 \\ 0 & 0 & 7 \end{bmatrix}$ If all elements of a third order determinant are equal to 1 or -1, then the value of the 19. The value of the determinant of a matrix A of determinant is : order 3 is 3. If C is the matrix of cofactors of 行。后田市 0 only it is the matrix A, then what is the value of determinant of C² ? an even number but not necessarily 0 JI to (b) गित्वमी - २४ - २ २८ - मिन्हों (a) 3 an odd number 17 The resident (c) 18 TRA ALAGATERIS 9 (d) 0, 1 or -1(c) 81/01.01. (d) 729 erts, tra $^{-1}$ If $A_k = \begin{bmatrix} k-1 & k \\ k-2 & k+1 \end{bmatrix}$, then what is $\begin{bmatrix} 0 \\ 1 \end{bmatrix}$, then what is the value **20.** 7. 3 If A = |-1| $det(A_1) + det(A_2) + det(A_3) + ... + det(A_{100})$ of det[adj(adjA)] ? equal to? (a) 5 (a) 100 25 1000 (c) 125 10) 9900 (d) 625 (d) 10000 DFTK-S-MTH (7 - A)

The Cartesian product $A \times A$ has 16 elements 23. among which are (0, 2) and (1, 3). Which of the following statements is/are correct ?

- 1. It is possible to determine set A.
- 2. $A \times A$ contains the element (3, 2).

Select the correct answer using the code given below :

(a) 1 only

2 only

(c) Both 1 and 2

(d) Neither 1 nor 2

Let A = $\{1, 2, 3, ..., 20\}$. Define a relation R from A to A by R = $\{(x, y) : 4x - 3y = 1\}$, where x, y \in A. Which of the following statements is/are correct ?

The domain of R is {1, 4, 7, 10, 13, 16}.
 The range of R is {1, 5, 9, 13, 17}.

3. The range of R is equal to codomain of R. Select the correct answer using the code given below :

(a) 1 only
 (b) 2 only
 (c) 1 and 2
 (d) 2 and 3
 FTK-S-MTH

Consider the following statements :

1. The relation f defined by

 $f(x) = \begin{cases} x^3, & 0 \le x \le 2\\ 4x, & 2 \le x \le 8 \end{cases}$ is a function.

2. The relation g defined by

$$g(\mathbf{x}) = \begin{cases} \mathbf{x}^2, & 0 \le \mathbf{x} \le 4\\ 3\mathbf{x}, & 4 \le \mathbf{x} \le 8 \end{cases} \text{ is a function.}$$

Which of the statements given above is/are correct?

(a) 1 only

- (b) 2 only
 - Both 1 and 2
- (d) Neither 1 nor 2

Consider the following statements :

1. $A = (A \cup B) \cup (A - B)$

2. $A \cup (B - A) = (A \cup B)$

3. $\mathbf{B} = (\mathbf{A} \cup \mathbf{B}) - (\mathbf{A} - \mathbf{B})$

Which of the statements given above are correct?

- (a) 1 and 2 only
- 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

(9-A)

24.

A function satisfies
$$f(x - y) = \frac{f(x)}{f(y)}$$

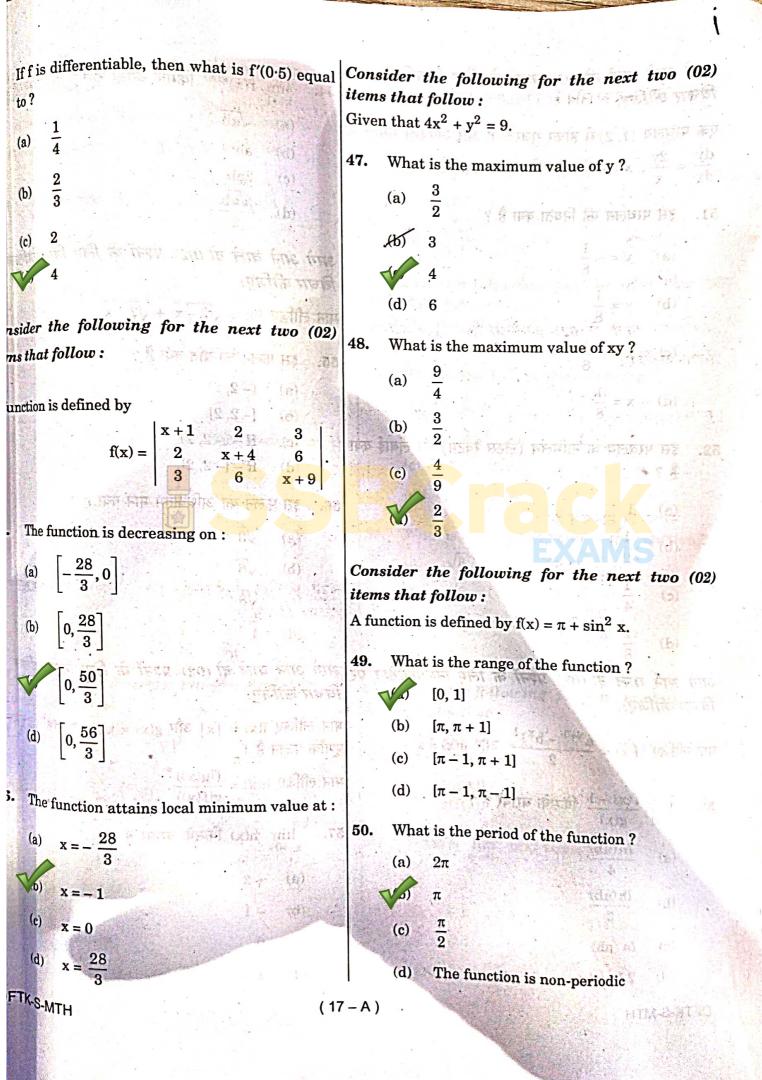
where $f(y) \neq 0$. If $f(1) = 0.5$, then what is
 $f(2) + f(3) + f(4) + f(5) + f(6)$ equal to ?
(a) $\frac{15}{32}$
(b) $\frac{17}{32}$
(c) $\frac{9}{17}$
(d) $\frac{47}{17}$
(e) $\frac{9}{17}$
(d) $\frac{47}{17}$
(e) $\frac{9}{17}$
(f) $\frac{29}{64}$
(g) $\frac{1}{3}$
(g) $\frac{1}{2}$
(h) $\frac{1}{2}$

Consider the following for the next two (02) 34. Which one of the following is a root of items that follow: equation-II? Consider the equation $(1 - x)^4 + (5 - x)^4 = 82$. (a) -1 What is the number of real roots of the 31. (b) -ω equation ? (c) $-\omega^2$ 0 (a) ω 2 (b) LAN ANT (11) 35. What is the number of common roots of equation-I and equation-II? 0 What is the sum of all the roots of the 32. (b) 1 equation? (c) 2 24 (a) (d) 3 (b) 12 10) 10 Consider the following for the next two (02) (14) items that follow : (d) 6 Α quadratic equation is given by Consider the following for the next three (03) $(a + b) x^{2} - (a + b + c) x + k = 0$, where a, b, c are items that follow : real. Consider equation-I : $z^3 + 2z^2 + 2z + 1 = 0$ and equation-II: $z^{1985} + \dot{z}^{100} + 1 = 0$. If $k = \frac{c}{2}$, (c \neq 0), then the roots of the equation 36. 33, What are the roots of equation-I? are : Real and equal (a) (a) $1, \omega, \omega^2$ (b) $-1, \omega, \omega^2$ Real and unequal (b) Real iff a > c $1, -\omega, \omega^2$ $-1, -\omega, -\omega^2$ Complex but not real (d) DFTK-S-MTH (13 - A)

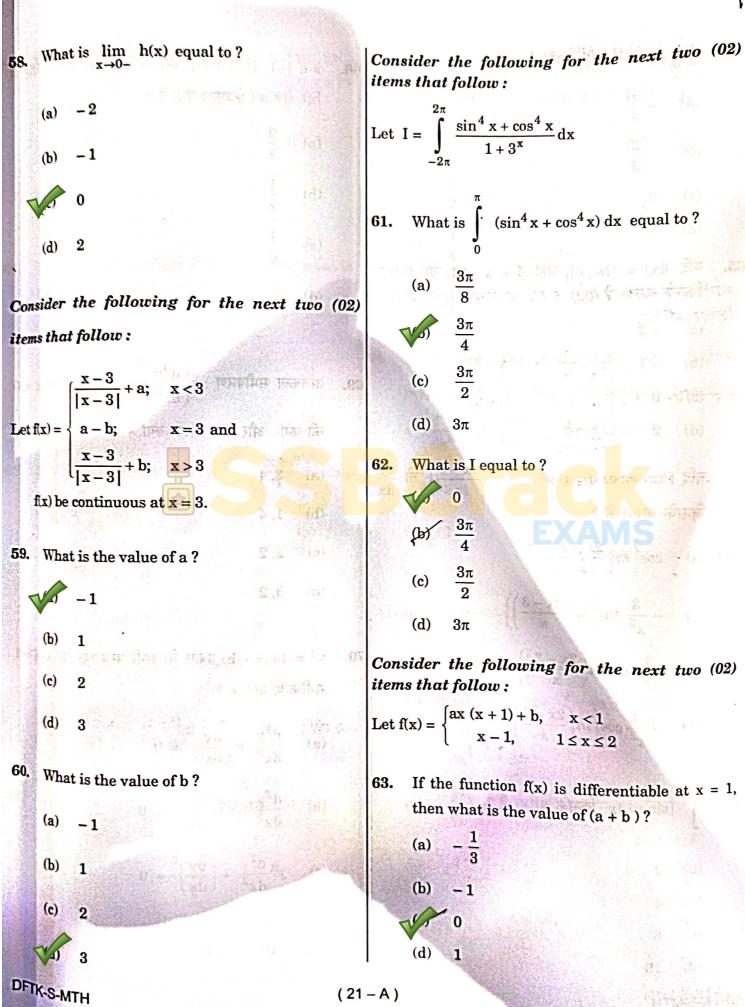
V

If k = c, then the roots of the equation are : Consider the following for the next two (02) $\frac{a+c}{a+b}$ and $\frac{b}{a+b}$ items that follow : The A start TEAL TRANS Let $f(x) = x^2 - 1$ and $gof(x) = x - \sqrt{x} + 1$. (b) $\frac{a+c}{a+b}$ and $-\frac{b}{a+b}$ Which one of the following is a possible 41. (c) 1 and $\frac{c}{a+b}$ expression for g(x)? (a) $\sqrt{x+1} - \sqrt[4]{x+1}$ (d) -1 and $-\frac{c}{a+b}$ $\sqrt{x+1} - \sqrt[4]{x+1} + 1$ $\sqrt{x+1} + \sqrt[4]{x+1}$ (c) usider the following for the next three (03) ns that follow : $x + 1 - \sqrt{x + 1} + 1$ (d) $(1+x)^n = 1 + T_1x + T_2x^2 + T_3x^3 + \dots + T_nx^n$. 42. What is g(15) equal to? What is $T_1 + 2T_2 + 3T_3 + \dots + nT_n$ equal to ? (a) 1 2 (b) 1 (c) 3 (c) 2n n2n-1 to they (20) 12 Fre 177 S. T. T. (d) (d) 4 What is $1 - T_1 + 2T_2 - 3T_3 + \dots + (-1)^n nT_n$ Consider the following for the next two (02) items that follow : equal to? Let a function f be defined on $\mathbb{R} - \{0\}$ and (a) 0 $2f(x) + f\left(\frac{1}{x}\right) = x + 3.$ -2^{n-1} (c) $n2^{n-1}$ What is f(0.5) equal to ? 43. (d) 1 (a) What is $T_1 + T_2 + T_3 + \dots + T_n$ equal to? (a) 2ⁿ (b) $2^{n} - 1$ (c) 1 2n-1 (d) 2 (d) $2^{n} + 1$ TK-S-MTH (15 - A)

2



出。这条111元的钟馆、GRIT 1912 T onsider the following for the next two (02) What is $\lim_{x\to 1} f(x)^{g(x)}$ equal to ?..... ens that follow : 54. parabola passes through (1, 2) and satisfies the √ab (a) ifferential equation $\frac{dy}{dx} = \frac{2y}{x}$, x > 0, y > 0, $= (\langle \psi_{i} \psi_{j} \rangle / \langle \psi_{i} \rangle / \langle \psi_{i$ ab 1. What is the directrix of the parabola ? (c) · 2ab 5 · 100 1 √ab $y = -\frac{1}{8}$ (d) 11 Consider the following for the next two (02) (b) $y = \frac{1}{8}$ items that follow : Let $f(x) = \sqrt{2 - x} + \sqrt{2 + x}$. $(y') = -\frac{1}{8}$ What is the domain of the function? 55. (d) $x = \frac{1}{2}$ (-2, 2)(b) [-2, 2]What is the length of latus rectum of the 52. (c) R - (-2, 2)parabola? 1357年7年1月 (d) R - [-2, 2](a) 1 UNITS IFTA DEFI 1 What is the greatest value of the function? 56. (b) 2 $\sqrt{3}$ $\sqrt{6}$ (b) √8 (c) 1 (d) 8 (d) 4 Consider the following for the next two (02) Consider the following for the next two (02) items that follow : items that follow : Let $f(x) = \frac{a^{x-1} + b^{x-1}}{2}$ and g(x) = x - 1. Let f(x) = |x| and g(x) = [x] - 1, where [.] is the greatest integer function. Let $h(x) = \frac{f(g(x))}{g(f(x))}$. 53. What is $\lim_{x\to 1} \frac{f(x)-1}{g(x)}$ equal to? TOG AT What is $\lim_{x\to 0+} h(x)$ equal to? 57. ln (ab) (a) -2 ln (ab) (b) - 1 0 ln (ab) (d) 1 (d) 2 ln (ab)DFTK-S-MTH **松口之之为1**30 (19 - A)

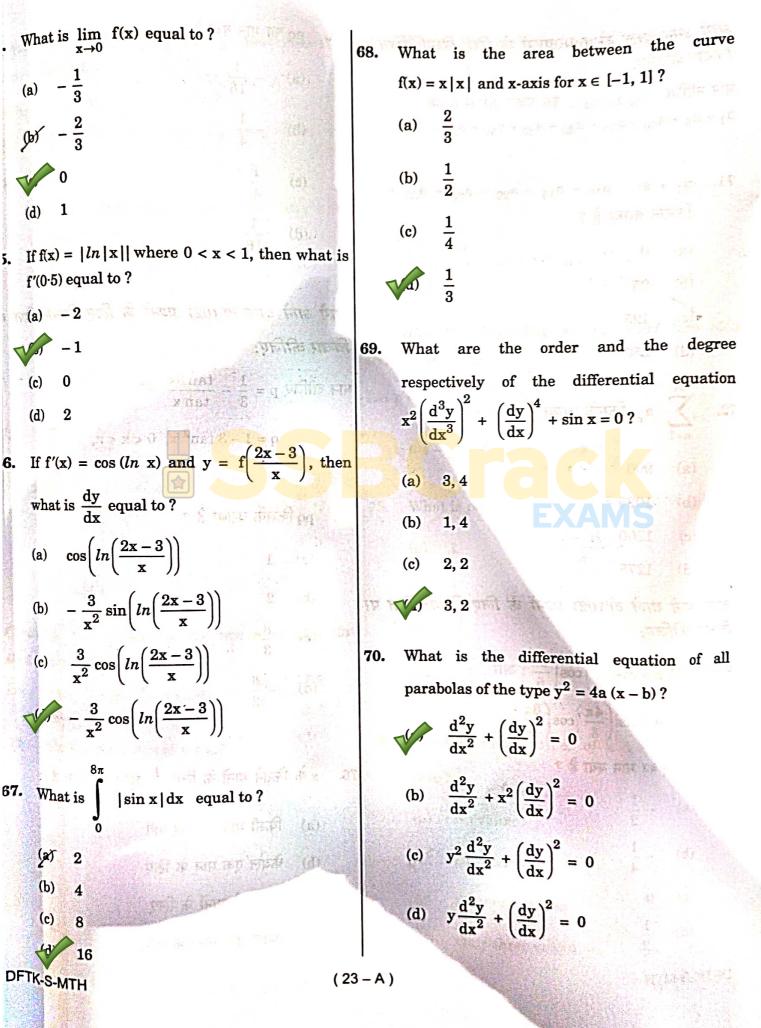


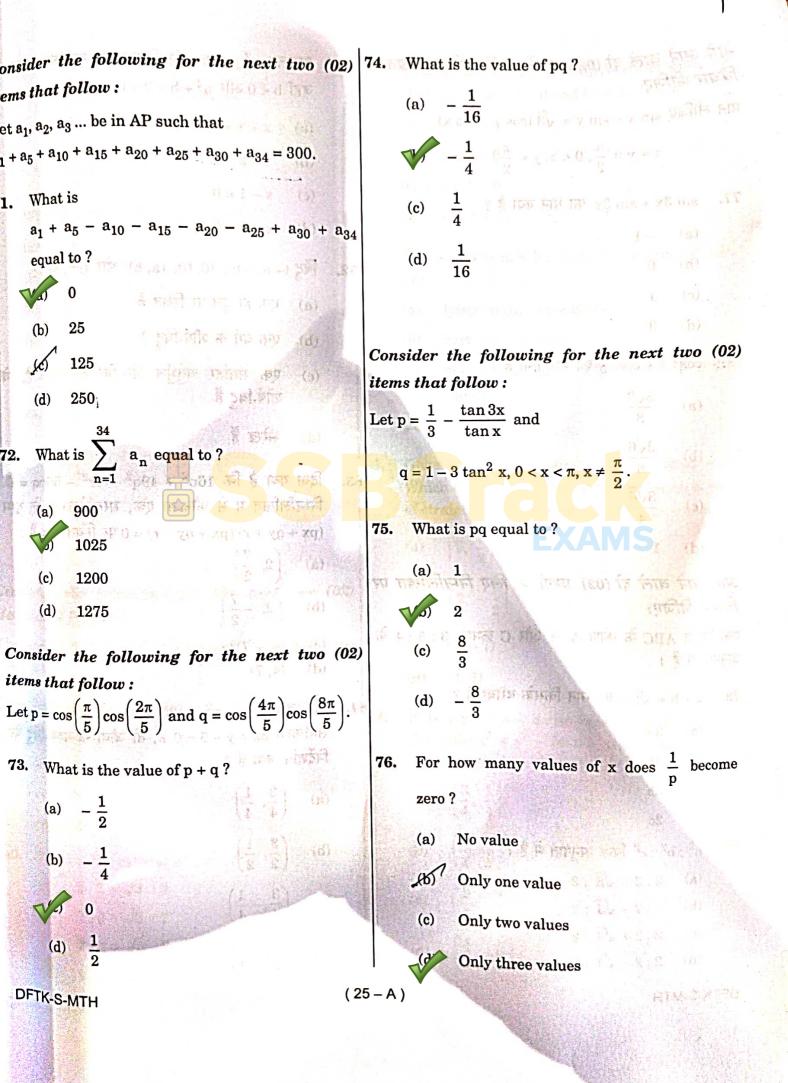
Consider the following for the next two (02)

Let I =
$$\int_{-2\pi}^{2\pi} \frac{\sin^4 x + \cos^4 x}{1 + 3^x} dx$$

What is $\int (\sin^4 x + \cos^4 x) dx$ equal to?

What is I equal to?





Consider the following for the next two (02) 81. What is the equation of directrix of parabola items that follow : $y^2 = 4bx$, where b < 0 and $b^2 + b - 2 = 0$? Let $\sin x + \sin y = \sqrt{3} (\cos y - \cos x); x + y = \frac{\pi}{2}$ x + 1 = 0(a) x - 2 = 0 $0 < x, y < \frac{\pi}{2}.$ (c) x - 1 = 0What is a value of sin 3x + sin 3y? (d) x + 2 = 077. (a) -1 The points (-a, -b), (0, 0), (a, b) and (a^2, ab) 82. 0 (b) are : 1 (c) lying on the same circle (a) vertices of a square vertices of a parallelogram that is not a What is a value of $\cos^3 x + \cos^3 y$? (c) 78. square 3√3 (a) collinear $\frac{3\sqrt{6}}{8}$ Given that $16p^2 + 49q^2 - 4r^2 - 56pq = 0$. (b) 83. Which one of the following is a point on a pair 3√6 of straight lines (px + qy + r)(px + qy - r) = 0?(c) (a) $\left(2, \frac{7}{2}\right)$ (d) 1 (2, $-\frac{7}{2}$) Consider the following for the next two (02) items that follow : (4, -7)The angles A, B and C of a triangle ABC are in the (c) ratio 3:5:4. (d) (4, 7) What is the value of $a + b + \sqrt{2}c$ equal to? 79. If 3x + y - 5 = 0 is the equation of a chord of 84. the circle $x^2 + y^2 - 25 = 0$, then what are the (a) 3a coordinates of the mid-point of the chord ? (b) 2b $\left(\frac{3}{4},\frac{1}{4}\right)$ 3b 新。·新加加加利 (d) 2c(b) $\left(\frac{3}{2}, \frac{1}{2}\right)$ 80. What is the ratio of $a^2 : b^2 : c^2$? (a) 2:2+ √3 :3 14) (c) $\left(\frac{3}{4}, -\frac{1}{4}\right)$ (b) $2:2-\sqrt{3}:2$ (d) $\left(\frac{3}{2},-\frac{1}{2}\right)$ (c) $2:2+\sqrt{3}:2$ $2:2-\sqrt{3}:3$ DFTK-S-MTH (27 - A)

L

- Consider the following in respect of the 87. 85. equation $\frac{x^2}{24-k} + \frac{y^2}{k-16} = 2.$
 - The equation represents an ellipse if 1. Odiar H k = 19.
 - 2. The equation represents a hyperbola if B = 28k = 12.
 - The equation represents a circle if 3. k = 20.कि पान के कड़ीज़िल्ली

How many of the statements given above are correct ? मायल मिंग्री जा म -者 可见 历版字 (F)。3天·雷

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- Only one (a) योक एक स्थानिक केले कि की Only two
- · 我被国家中的内容的存在了中,在1997年 15 (c) All three None (d)
- Consider the following statements in respect
- 86. of hyperbola $\frac{x^2}{\cos^2 \theta} - \frac{y^2}{\sin^2 \theta} = 1$:

The two foci are independent of θ . 10

- The eccentricity is sec θ . 2.
- The distance between the two foci is 3. 2 units.

90. How many of the statements given above are correct?

(a) Only one

(b) Only two All three

(d) None

DFTK-S-MTH

Consider the following in respect of the circle $4x^2 + 4y^2 - 4ax - 4ay + a^2 = 0:$

- The circle touches both the axes. 1.
- 2. The diameter of the circle is 2a.
- The centre of the circle lies on the line 3. $\mathbf{x} + \mathbf{y} = \mathbf{a}$.

How many of the statements given above are correct?

(X) Only one

Only two

- (c) All three
- (d) None
- For what values of k is the line 88. $(k-3) x - (5-k^2) y + k^2 - 7k + 6 = 0$ parallel to the line x + y = 1?
 - -1, 1(b) -1, 2(c) 1, -22, -2(d)
- 89. The line x + y = 4 cuts the line joining P(-1, 1). and Q(5, 7) at R. What is PR : RQ equal to?
 - 1:1(a)
 - (b) 1:2

(c) 2:1

1:3

What is the sum of the intercepts of the line whose perpendicular distance from origin is 4 units and the angle which the normal makes with positive direction of x-axis is 15°?

- a strater

8 (a) $4\sqrt{6}$ 8 \ 6 (c) (d) 16

(29 - A)

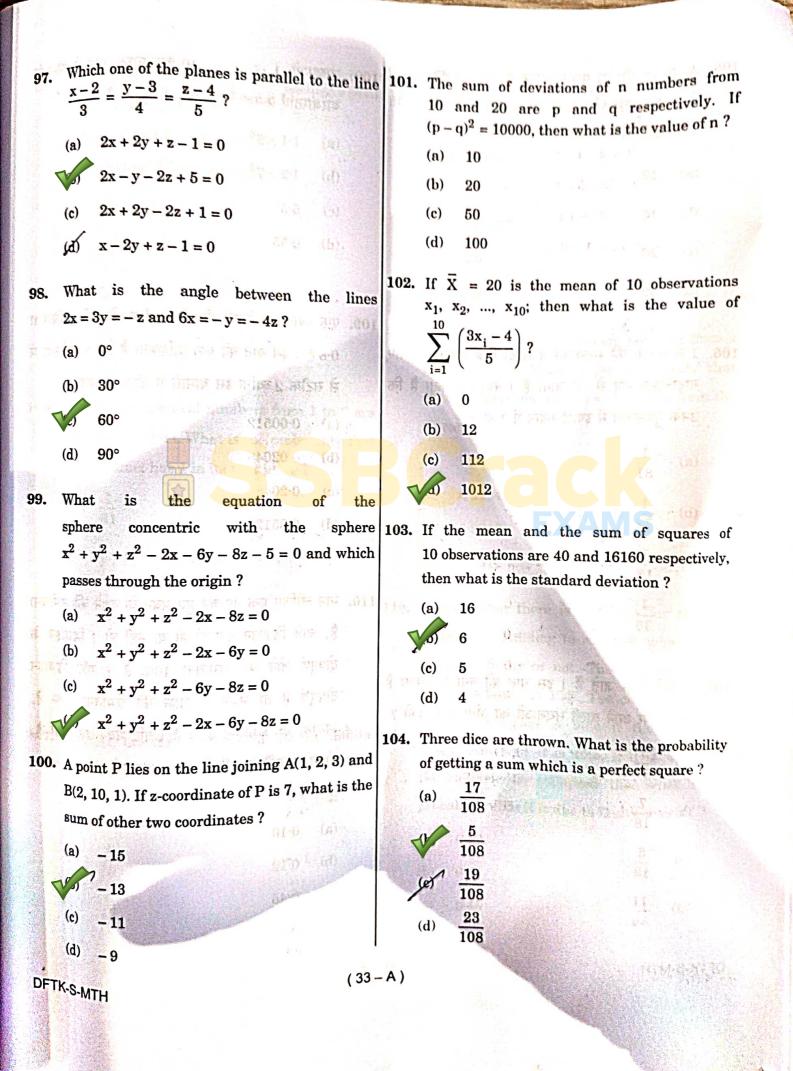
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91. What is the length of projection of the vectors

$$\hat{i} + 2\hat{j} + 3\hat{k}$$
 on the vector $2\hat{i} + 3\hat{j} = 2\hat{k}$?
 $\sqrt{\frac{1}{4\pi^2}}$
(b) $\frac{2}{\sqrt{17}}$
(c) $\frac{3}{\sqrt{17}}$
(d) $\frac{2}{\sqrt{14}}$
92. If $(\vec{a} \times \vec{b})^2 + (\vec{a} \cdot \vec{b})^2 = 144$ and $|\vec{b}| = 4$,
then what is the value of $|\vec{a}|$?
(d) \hat{a}
(e) \hat{b}
1. The number of unit vectors $\vec{a} = (0, 1, 1)$ and $\vec{b} = (1, 0, 1)$:
1. The number of unit vectors $\vec{a} = (0, 1, 1)$ and $\vec{b} = (1, 0, 1)$:
1. The number of unit vectors $\vec{a} = (0, 1, 1)$ and $\vec{b} = (1, 0, 1)$:
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1. The number of unit vectors $\vec{a} = (0, 1, 1)$ and $\vec{b} = (1, 0, 1)$:
1. The number of unit vectors $\vec{a} = (0, 1, 1)$ and $\vec{b} = (1, 0, 1)$:
1. The number of unit vectors $\vec{a} = 3$.
Which of the statements given above is/are correct?
(a) 6
(b) 4
(c) 6 both 1 and 2
(c) $8 + 1$ bo line with direction ratios $(3, -2, 6)$ and passing through $(1, -1, 1)$, then what are the coordinates of the points on L whose distance from $(1, -1, 1)$ is 2 units?
(e) $0 \le 6 \le \frac{\pi}{2}$
(f) $(\frac{19}{7}, -\frac{11}{7}, \frac{19}{7})$ and $(\frac{1}{7}, \frac{3}{7}, \frac{5}{7})$
(g) $(\frac{19}{7}, -\frac{11}{7}, \frac{19}{7})$ and $(\frac{1}{7}, \frac{3}{7}, \frac{5}{7})$
(g) $(\frac{13}{7}, -\frac{11}{17}, \frac{19}{7})$ and $(\frac{1}{7}, \frac{3}{7}, \frac{5}{7})$
(h) $(\frac{13}{7}, -\frac{11}{17}, \frac{19}{7})$ and $(\frac{1}{7}, \frac{3}{7}, \frac{5}{7})$
(c) $(\frac{13}{17}, \frac{11}{17}, \frac{19}{7})$ and $(\frac{1}{7}, \frac{3}{7}, \frac{5}{7})$
(d) $(\frac{13}{7}, -\frac{11}{17}, \frac{19}{7})$ and $(\frac{1}{7}, \frac{3}{7}, \frac{5}{7})$
(e) $(\frac{13}{17}, -\frac{11}{17}, \frac{19}{7})$ and $(\frac{1}{7}, \frac{3}{7}, \frac{5}{7})$
(f) $(\frac{13}{17}, -\frac{11}{17}, \frac{19}{7})$ and $(\frac{1}{7}, \frac{3}{7}, \frac{5}{7})$
(c) $(\frac{13}{17}, \frac{11}{17}, \frac{19}{7})$ and $(\frac{1}{7}, \frac{3}{7}, \frac{5}{7})$
(e) $(\frac{13}{17}, -\frac{11}{17}, \frac{19}{17})$ and $(\frac{$

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Al Angel



 $A_{B,C}$ and D are mutually exclusive and 108. What is the mean of the numbers 1, 2, 3, ..., 10 exhaustive events.

 $f^{2P(A)} = 3P(B) = 4P(C) = 5P(D).$ then what is 77P(A) equal to ?

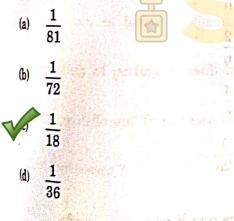
12 (2)

15 (b)

30 (d)

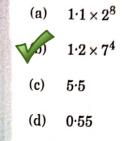
106. Two distinct natural numbers from 1 to 9 are picked at random. What is the probability that their product has 1 in its unit place?

HINA TO ALL



मिन्द्र के 10 . को में मड़ह जाकी तथ के 107. Two dice are thrown. What is the probability^{that} difference of numbers on them is 2 or 3? (a) 36 (b) 18 18 11 DFTK-8-MTH 36

with frequencies ${}^{9}C_{0}$, ${}^{9}C_{1}$, ${}^{9}C_{2}$, ..., ${}^{9}C_{9}$, respectively?



109. The probability that a person recovers from a disease is 0.8. What is the probability that exactly 2 persons out of 5 will recover from the disease?



110. Suppose that there is a chance for a newly constructed building to collapse, whether the design is faulty or not. The chance that the design is faulty is 10%. The chance that the building collapses is 95% if the design is faulty, otherwise it is 45%. If it is seen that the building has collapsed, then what is the probability that it is due to faulty design ?



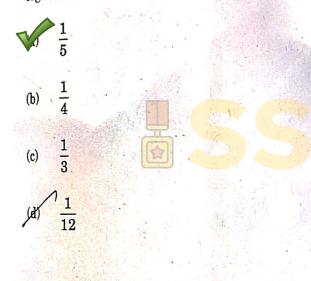
(35-A)

 11^{11} If r is the coefficient of correlation between x 113. If H is the Harmonic Mean of three numbers $^{10}C_4$, $^{10}C_5$, and $^{10}C_6$, then what is the value and y, then what is the correlation coefficient 医副体育 化硅合合 建合合原因 between (3x + 4) and (-3y + 3)? of $\frac{270}{H}$? 1 (a) $\frac{14}{17}$ (b) r 17 (b) 14 $\sqrt{3}$ r $\frac{1}{31}$ (c) (d) $-\sqrt{3}r$ 114. In a class, there are n students including the (d) students P and Q. What is the probability that P and Q sit together if seats are assigned randomly ? 1 n 112. A fair coin is tossed 6 times. What is the 2 n probability of getting a result in the 6th toss (b) $\frac{4}{n}$ which is different from those obtained in the (c) $\frac{1}{2n}$ from (el) first five tosses ? 115. In a Binomial distribution B(n, p), n = 6 and (a) $-\frac{7}{16}$ $-\frac{1}{16}$ $-\frac{1}{15}$ $-\frac{1}{15}$ 9P(X = 4) = P(X = 2). What is p equal to ? $\frac{1}{16}$ (b) $\frac{1}{4}$ (a) $\frac{1}{2}$ $\frac{1}{32}$ (b) (c) 34 (c) $\frac{1}{64}$ 4 5 (37 – A) DFTK-S-MTH

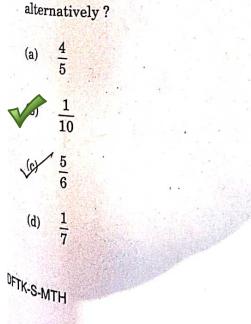
msider the following for the next five (05) 118. What is the probability that no two girls sit that follow :

vee boys P, Q, R and three girls S, T, U are to be _{ranged} in a row for a group photograph.

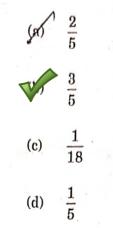
6. What is the probability that all three boys sit together ?



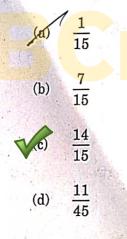
17. What is the probability that boys and girls sit



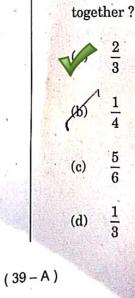
together ?



119. What is the probability that P and Q take the two end positions ?



120. What is the probability that Q and U sit





Courses

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 AIRMEN
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 MNS
 MOCK TEST
 NDA EXAM
 PC(SL)
 SCO
 SSB INTERVIEW
 TERRITORIAL ARMY

 (1)
 (1)
 (2)
 (1)
 (1)
 (3)
 (1)
 (1)
 (2)
 (1)

