

FIRST REVISION TEST - 2025**Standard XI**Reg.No.

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BUSINESS MATHEMATICS AND STATISTICS**Time : 3.00 hrs****Part – I****Marks : 90****20 x 1 = 20****I. Choose the correct answer:**

1. If A is square matrix of order 3 then $|kA|$ is
 a) $k|A|$ b) $-k|A|$ c) $k^3|A|$ d) $-k^3|A|$
2. The inverse matrix of $\begin{pmatrix} 3 & 1 \\ 5 & 2 \end{pmatrix}$ is
 a) $\begin{pmatrix} 2 & -1 \\ -5 & 3 \end{pmatrix}$ b) $\begin{pmatrix} -2 & 5 \\ 1 & -3 \end{pmatrix}$ c) $\begin{pmatrix} 3 & -1 \\ -5 & -3 \end{pmatrix}$ d) $\begin{pmatrix} -3 & 5 \\ 1 & -2 \end{pmatrix}$
3. The value of n, when $nP_2 = 20$ is
 a) 3 b) 6 c) 5 d) 4
4. The possible outcomes when a coin is tossed five times
 a) 2^5 b) 5^2 c) 10 d) $\frac{5}{2}$
5. The x-intercept of the straight line $3x + 2y - 1 = 0$ is
 a) 3 b) 2 c) $\frac{1}{3}$ d) $\frac{1}{2}$
6. Combined equation of co-ordinate axes is
 a) $x^2 + y^2 = 0$ b) $x^2 + y^2 = 0$ c) $xy = c$ d) $xy = 0$
7. The value of $\sin(-420^\circ)$ is
 a) $\frac{\sqrt{3}}{2}$ b) $-\frac{\sqrt{3}}{2}$ c) $\frac{1}{2}$ d) $-\frac{1}{2}$
8. If $p \sec 50^\circ = \tan 50^\circ$ then p is
 a) $\cos 50^\circ$ b) $\sin 50^\circ$ c) $\tan 50^\circ$ d) $\sec 50^\circ$
9. The graph of $y = 2x^2$ is passing through
 a) $(0,0)$ b) $(2,1)$ c) $(2,0)$ d) $(0,2)$
10. $\frac{d}{dx}\left(\frac{1}{x}\right) =$
 a) $-\frac{1}{x^2}$ b) $-\frac{1}{x}$ c) $\log x$ d) $\frac{1}{x^2}$
11. The maximum value of $f(x) = \sin x$ is
 a) 1 b) $\frac{\sqrt{3}}{2}$ c) $\frac{1}{\sqrt{2}}$ d) $-\frac{1}{\sqrt{2}}$
12. If $u = e^{x^2}$, then $\frac{\partial u}{\partial x} =$
 a) $2x e^{x^2}$ b) e^{x^2} c) $2e^{x^2}$ d) $2e^{x^2}$

13. The % of income on 7% stock at ₹80 at ₹80 is
 - 9%
 - 8.75%
 - 8%
 - 7%
14. An annuity in which payments are made at the beginning of each payment period is called
 - An immediate annuity
 - Perpetual annuity
 - Annuity due
 - None of these
15. Which of the following is positional measure?
 - Range
 - Mode
 - Mean deviation
 - Percentiles
16. The best measure of central tendency is
 - AM
 - HM
 - GM
 - Median
17. Correlation co-efficient lies between
 - 0 to ∞
 - 1 to +1
 - 1 to 0
 - 1 to ∞
18. The lines of regression intersect at the point
 - (X, Y)
 - (\bar{X}, \bar{Y})
 - (0, 0)
 - (σ_x, σ_y)
19. A solution which maximizes or minimizes the given LPP is called
 - A solution
 - A feasible solution
 - An optimal solution
 - None of these
20. Network problems have advantage in terms of project
 - Scheduling
 - Planning
 - Controlling
 - All the above

Part - II

II. Answer any 7 questions. (Q.No.30 is compulsory)

7x2=14

21. Evaluate :
$$\begin{vmatrix} 1 & 3 & 4 \\ 102 & 18 & 36 \\ 17 & 3 & 6 \end{vmatrix}$$
22. If $nC_4 = nC_6$, find $12C_n$
23. Find the centre and radius of the circle $x^2 + y^2 - 22x - 4y + 25 = 0$
24. Find the value of $\sin(-105^\circ)$
25. Evaluate :
$$\lim_{x \rightarrow \infty} \frac{6-5x^2}{4x+15x^2}$$
26. If the production of a firm is given by $P = 4LK - L^2 + K^2$, $L > 0$, $K > 0$, prove that

$$L \frac{\partial P}{\partial L} + K \frac{\partial P}{\partial K} = 2P$$
27. Find the market value of 325 shares of face value ₹100 at a premium of ₹18.
28. Find the first quartile and third quartile for the given observations:
2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22
29. From the following data, calculate the correlation co-efficient $\Sigma XY = 120$, $\Sigma x^2 = 90$, $\Sigma y^2 = 640$

30. Construct a network diagram for the following situation :
 $A < D, E; B, D < F; C < G$ and $B < H$

Part - III

III. Answer any 7 questions. (Q.No.40 is compulsory)

7x3=21

31. If $A = \begin{bmatrix} 2 & 4 \\ -3 & 2 \end{bmatrix}$ then, find A^{-1}
32. If $nP_4 = 12(nP_2)$, find n.
33. Find the length of the tangent from the point (2,3) to the circle $x^2 + y^2 + 8x + 4y + 8 = 0$
34. Find the principal value of $\sin^{-1}(-\frac{1}{2}) = \sin^{-1}(-\frac{1}{2})$ $\sin y = -\frac{1}{2}$ $y = -\frac{\pi}{6}$
35. Differentiate $\sin^3 x$ with respect to $\cos^3 x$
36. Show that the function $f(x) = x^3 - 3x^2 + 4x$, $x \in R$ is strictly increasing function on R.
37. Find the annual rate of interest, to get a perpetuity of ₹675 for every half yearly from the present value of ₹30,000
38. A family has two children. What is the probability that both the children are girls given that at least one of them is a girl?
39. Obtain the two regression lines from the following data :
 $N = 20$, $\Sigma X = 80$, $\Sigma Y = 40$, $\Sigma X^2 = 1680$, $\Sigma Y^2 = 320$ and $\Sigma XY = 480$
40. Draw the event oriented network for the following data.

Events :	1	2	3	4	5	6	7
Immediate predecessors :	-	1	1	2,3	3	4,5	5,6

Part - IV

IV. Answer all the questions.

7x5=35

41. a) Solve by using matrix inversion method :

$$3x - 2y + 3z = 8, 2x + y - z = 1, 4x - 3y + 2z = 4$$

(OR)

- b) Examine the following functions for continuity at indicated points

$$f(x) = \begin{cases} \frac{x^2-4}{x-2}, & \text{if } x \neq 2 \\ 0, & \text{if } x = 2 \text{ at } x = 2 \end{cases}$$

42. a) Using mathematical induction method, prove that $1 + 2 + 3 + \dots + n = \frac{n(n+1)}{2}$, $n \in N$

(OR)

- b) The cost function of a firm is $C = x^3 - 12x^2 + 48x$. Find the level of output ($x > 0$) at which average cost is minimum.

43. a) Find the vertex, focus, axis, directrix and the length of latus rectum of the parabola
 $y^2 - 8y - 8x + 24 = 0$

(OR)

- b) A dietician wishes to mix two types of food F_1 and F_2 in such a way that the vitamin contents of the mixture contains atleast 6 units of vitamin A and 9 units of vitamin B. Food F_1 costs ₹50 per kg and F_2 costs ₹70 per kg. Food F_1 contains 4 units per kg of vitamin A and 6 units per kg of vitamin B while food F_2 contains 5 units per kg of vitamin A and 3 units per kg of vitamin B. Formulate the above problem as a LPP to minimize the cost of mixture.

44. a) Solve $\tan^{-1}(x+1) + \tan^{-1}(x-1) = \tan^{-1}\left(\frac{4}{7}\right)$

(OR)

- b) If $A = \begin{bmatrix} 1 & 2 \\ 1 & 1 \end{bmatrix}$, $B = \begin{bmatrix} 0 & -1 \\ 1 & 2 \end{bmatrix}$, then show that $(AB)^{-1} = B^{-1}A^{-1}$

45. a) If $y = a \cos mx + b \sin mx$, then show that $y_2 = m^2y = 0$

(OR)

- b) A man invest ₹96,000 on ₹100 shares at ₹80. If the company pays him 18% as dividend, find
 i) The number of shares he bought
 ii) The dividend
 iii) Percentage of return

46. a) Find the stationary values and stationary points for the function
 $f(x) = 2x^3 + 9x^2 + 12x + 1$

(OR)

- b) Bag I contains 3 red and 4 blue balls while another Bag II contains 5 red and 6 blue balls. One ball is drawn at random from one of the bags and it is found to be red. Find the probability that it was drawn from second bag.

47. a) Calculate rank correlation coefficient of the following data.

Sub 1	40	46	54	60	70	80	82	85	87	90	95
Sub 2	45	46	50	43	40	75	55	72	65	42	70

(OR)

- b) Draw the network and calculate the earliest start time, earliest finish time, latest start time and latest finish time of each activity and determine the critical path of the project and duration to complete the project.

Jobs	1-2	1-3	2-4	3-4	3-5	4-5	4-6	5-6
Duration	6	5	10	3	4	6	2	9

STD-11

1. I.	$E \begin{vmatrix} 3 & 1 \\ 1 & 1 \end{vmatrix}$	21. $\begin{vmatrix} 1 & 3 & 4 \\ 108 & 18 & 36 \\ 17 & 3 & 6 \end{vmatrix} = 6 \begin{vmatrix} 1 & 3 & 4 \\ 17 & 3 & 6 \\ 17 & 3 & 6 \end{vmatrix} = 0$ (Since $R_2 \equiv R_3$)
2. a	$\begin{pmatrix} 2 & -1 \\ -5 & 3 \end{pmatrix}$	22. $nc_4 = nc_6 \quad [nc_x = nc_y]$ $n = 4+b=10 \quad x+y=n$ $12c_n = 12c_{10}$ $12c_2 = \frac{12 \times 11}{1 \times 2} = 66$
3. c	5	23. $x^2 + y^2 - 22x - 4y + 25 = 0$, $C(-9, -1) = (11, 2)$ $r = \sqrt{g^2 + f^2 - c} = \sqrt{121 + 4 - 25} = 10$.
4. a	25	24. $\sin(60+45) = \sin b \cos 45 + \cos b \sin 45$ $= \frac{\sqrt{3}}{2} \times \frac{1}{\sqrt{2}} + \frac{1}{2} \times \frac{1}{\sqrt{2}}$ $= \frac{\sqrt{6} + \sqrt{2}}{4}$
5. c	$\frac{1}{\sqrt{3}}$	25. $\lim_{x \rightarrow \infty} \frac{b-5x^2}{4x+15x^2} = \lim_{x \rightarrow \infty} \frac{\frac{b}{x^2} - 5}{\frac{4}{x} + 15} = \frac{0-5}{0+15} = -\frac{1}{3}$
6. d	$xy = 0$	26. $P = 4LK - L^2 + K^2$ $P(\lambda L, \lambda K) = 4\lambda^2 LK - \lambda^2 L^2 - \lambda^2 K^2$ $= \lambda^2 (4LK - L^2 + K^2)$ $= \lambda^2 P$ P is Homogeneous. $\therefore L \frac{\partial P}{\partial L} + K \frac{\partial P}{\partial K} = 2P$
7. b	$-\sqrt{3}/2$	27. $\sum xy = 120, \sum x^2 = 90, \sum y^2 = 640$ $r = \frac{\sum xy}{\sqrt{\sum x^2 \sum y^2}} = \frac{120}{\sqrt{90} \sqrt{640}} = \frac{120}{240} \approx 0.5$
8. b	$\sin 50^\circ$	28. $A < D, E; B, D < F; C < G; B < H$.
9. a	$(0, 0)$	
10. a	$-1/x^2$	29. Market value = $118 \times 325 = \approx 38350$
11. a	1	30. $N = 11, Q_1 = \left(\frac{N+1}{4}\right)^{th}$ \Rightarrow $= \left(\frac{11+1}{4}\right)^{th} = 3^{rd} = b$. $Q_3 = 3\left(\frac{12}{4}\right)^{th} = 9^{th} = 18$ 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22

31. $A = \begin{pmatrix} 2 & 4 \\ -3 & 2 \end{pmatrix}$ $|A| = 4 + 12 = 16 \neq 0$
 $A^{-1} = \frac{1}{|A|} \text{adj} A = \frac{1}{16} \begin{pmatrix} 2 & -4 \\ 3 & 2 \end{pmatrix}$
 $\text{adj} A = \begin{pmatrix} 2 & -4 \\ 3 & 2 \end{pmatrix}$
 $A^{-1} = \frac{1}{16} \begin{pmatrix} 2 & -4 \\ 3 & 2 \end{pmatrix}$

32. $n P_4 = 12(n P_2)$
 $(n-1)(n-2)(n-3) = 12(n-1)(n-1)$
 $(n-2)(n-3) = 12$
 $n-2 = 4$
 $\boxed{n=6}$

33. $\sqrt{x_1^2 + y_1^2 + 8x_1 + 4y_1 + 8}$
at (2,3)
 $\sqrt{(2)^2 + (3)^2 + 8(2) + 4(3) + 8} = \sqrt{49} = 7 \text{ units.}$

34. $\sin^{-1}(y_2) \Rightarrow y = \sin^{-1}(-y_2)$
 $\sin y = -y_2$
 $\boxed{y = -\pi/6}$

35. $u = \sin^3 x, v = \cos^3 x$
 $\frac{du}{dx} = 3 \sin^2 x \cos x$
 $\frac{dv}{dx} = -3 \cos^2 x (\sin x)$
 $\frac{du}{dv} = \frac{3 \sin^2 x \cos x}{-3 \cos^2 x \sin x} = -\frac{\sin x}{\cos x} = -\tan x$

36. $f(x) = x^3 - 3x^2 + 2x$
 $f'(x) = 3x^2 - 6x + 4$
 $= 3(x-1)^2 + 1 > 0.$

\therefore The Function f is Strictly increasing on $(-\infty, \infty)$

7. $P = 30,000, a = 675, k = 2, i = ?$
 $P = \frac{a}{i/k}$
 $30000 = \frac{675}{i/2}$
 $= \frac{1350}{i}$

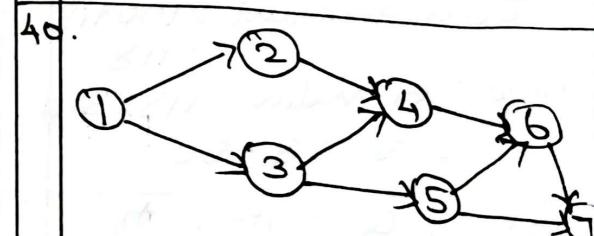
38. $S = \{BBG, GBG, BB, GGB\}$
 $A = \{GGG\}$
 $n(A) = 1$
 $P(A) = 1/4$
 $B = \{BGG, GGB, GGG\}$
 $n(B) = 3$
 $P(B) = 3/4$
 $n(A \cap B) = 1$
 $P(A|B) = \frac{P(A \cap B)}{P(B)} = \frac{1}{4} \times \frac{4}{3} = 1/3$

39. $\bar{x} = \frac{80}{20} = 4, \bar{y} = \frac{40}{20} = 2$
 $b_{yx} = \frac{NSxy - Sx Sy}{NSx^2 - (Sx)^2}$
 $b_{yx} = \frac{20(480) - 80(40)}{20(1680) - (80)^2} = \frac{6400}{27200} = 0.24$

y on x
 $y - \bar{y} = b_{yx}(x - \bar{x})$
 $y - 2 = 0.24(x - 4)$
 $\boxed{y = 0.24x + 1.04}$

b_{xy} = $\frac{NSxy - Sx Sy}{NSy^2 - (Sy)^2}$
 $= \frac{20(480) - 80(40)}{20(320) - (40)^2} = \frac{6400}{4800} = 1.33$

x on y
 $x - \bar{x} = b_{xy}(y - \bar{y})$
 $x - 4 = 1.33(y - 2)$
 $\boxed{x = 1.33y + 1.34}$



III.

$$41(a) \begin{pmatrix} 3 & -2 & 3 \\ 2 & 1 & -1 \\ 4 & -3 & 2 \end{pmatrix} \begin{pmatrix} x \\ y \\ z \end{pmatrix} = \begin{pmatrix} 8 \\ 1 \\ 4 \end{pmatrix}$$

$$x = A^{-1}B$$

$$|A| = \begin{vmatrix} 3 & -2 & 3 \\ 2 & 1 & -1 \\ 4 & -3 & 2 \end{vmatrix} = -17 \neq 0$$

$$\text{adj } A = \begin{pmatrix} -1 & -5 & -1 \\ -8 & -6 & 9 \\ -10 & 1 & 1 \end{pmatrix}$$

$$A^{-1} = \frac{1}{-17} \begin{pmatrix} -1 & -5 & -1 \\ -8 & -6 & 9 \\ -10 & 1 & 1 \end{pmatrix}$$

$$x = \frac{1}{-17} \begin{pmatrix} -1 & -5 & -1 \\ -8 & -6 & 9 \\ -10 & 1 & 1 \end{pmatrix} \begin{pmatrix} 8 \\ 1 \\ 4 \end{pmatrix}$$

$$= \frac{1}{-17} \begin{pmatrix} -17 \\ -34 \\ -51 \end{pmatrix} = \begin{pmatrix} 1 \\ 2 \\ 3 \end{pmatrix}$$

$x=1$	$y=2$	$z=3$
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(b) $f(x) = \begin{cases} \frac{x^2-4}{x-2}, & x \neq 2 \\ 0, & x=2 \end{cases}$

 $x=2-h, h \rightarrow 0, x \rightarrow 2$
 $\lim_{h \rightarrow 0} f(2-h) = \lim_{h \rightarrow 0} \frac{(2-h)^2-4}{2-h-2}$

$\lim_{h \rightarrow 0} \frac{h^2-4h}{-h} = \lim_{h \rightarrow 0} h(h-4)$

$\lim_{h \rightarrow 0} \frac{0-4}{-1} = 4$

$L(f(x))_{x=0}, f(2)=0$

$L(f(x)) \neq f(2)$

Function is not continuous at $x=2$.

$42(a) P(n) = 1+2+...+n = \frac{n(n+1)}{2}$

$P(1) = 1 = \frac{1(1+1)}{2} = 1$

$P(1)$ is true.

$P(k) = 1+2+...+k = \frac{k(k+1)}{2}$

$P(k+1) = P(k) + k+1$
 $= \frac{(k+1)(k+2)}{2}$

$P(k+1)$ is true.

(b) $AC = MC$

 $AC = \frac{C}{x} = \frac{x^3 - 12x^2 + 48x}{x}$

$AC = x^2 - 12x + 48$

$MC = \frac{d}{dx}(C) = 3x^2 - 24x + 48$

$3x^2 - 24x + 48 = x^2 - 12x + 48$

$x(x-6) = 0$

$x=0, x=6$

Output 6 units.

$43(a) y^2 - 8y + 24 = 8x$

$y^2 - 8y + 16 = 8x - 24 + 16$

$(y-4)^2 = 8(x+1)$

$y^2 = 8x$

Parabola Right open.

$V(0,0)$	$x=0$ $y=0$	$x=1, y=4$
$F(9,0)$	$x=2$ $y=0$	$x=3, y=4$
Axis x-axis	$y=0$	$y=4$
$x+y=0$	$x+2=0$	$x=-1$
L.R	8	8

43(b) variables:

x_1 and x_2

objective function:

$F_1 = 50x_1, F_2 = 70x_2$

$Z = 50x_1 + 70x_2$

constraints:

$4x_1 + 5x_2 \geq 6 \text{ vitamin A}$

$6x_1 + 3x_2 \geq 9 \text{ vitamin B}$

non-negative restriction:

$x_1, x_2 \geq 0$

$\text{minimize } Z = 50x_1 + 70x_2$

$4x_1 + 5x_2 \geq 6,$

$6x_1 + 3x_2 \geq 9, \text{ and } x_1, x_2 \geq 0.$

$44(a) \tan^{-1}(x+1) + \tan^{-1}(x-1) = \tan^{-1}(y)$

$\tan^{-1}\left(\frac{x+1+x-1}{1-(x+1)(x-1)}\right) = \tan^{-1}(4/7)$

$\frac{2x}{1-x^2} = \frac{4}{7}$

$2x^2 + 7x - 4 = 0,$

(b) $A = \begin{pmatrix} 1 & 1 \\ 1 & 1 \end{pmatrix}, A^{-1} = \begin{pmatrix} 0 & -1 \\ 1 & 2 \end{pmatrix}$

 $(AB)^{-1} = B^{-1}A^{-1}$
 $|A| = \begin{vmatrix} 1 & 1 \\ 1 & 1 \end{vmatrix} = 1 \neq 0$
 $|B| = \begin{vmatrix} 0 & -1 \\ 1 & 2 \end{vmatrix} = 1 \neq 0$
 $AB = \begin{pmatrix} 1 & 1 \\ 1 & 1 \end{pmatrix} \begin{pmatrix} 0 & -1 \\ 1 & 2 \end{pmatrix}$
 $|AB| = \begin{vmatrix} 2 & 3 \\ 1 & 1 \end{vmatrix} = -1 \neq 0$
 $\text{adj } AB = \begin{pmatrix} 1 & -3 \\ -1 & 2 \end{pmatrix}$
 $(AB)^{-1} = \frac{1}{|AB|} (\text{adj } AB)$
 $= \frac{1}{-1} \begin{pmatrix} 1 & -3 \\ -1 & 2 \end{pmatrix} = \begin{pmatrix} -1 & 3 \\ 1 & -2 \end{pmatrix}$
 $A^{-1} = \frac{1}{|A|} \text{adj } A = \frac{1}{-1} \begin{pmatrix} 1 & -2 \\ -1 & 1 \end{pmatrix}$
 $B^{-1} = \frac{1}{|B|} \text{adj } B = \frac{1}{1} \begin{pmatrix} 2 & 1 \\ -1 & 0 \end{pmatrix}$
 $B^{-1}A^{-1} = \begin{pmatrix} 2 & 1 \\ -1 & 0 \end{pmatrix} \begin{pmatrix} 1 & -2 \\ -1 & 1 \end{pmatrix}$
 $= \begin{pmatrix} -1 & 3 \\ 1 & -2 \end{pmatrix}$
 $(AB)^{-1} = B^{-1}A^{-1}$

45(a) $y = a \cos mx + b \sin mx$,
 $y = a \cos mx + b \sin mx$
 $y_1 = -a \sin mx \cdot m + b \cos mx \cdot m$
 $y_2 = -m^2 \{ a \cos mx + b \sin mx \}$
 $y_2 = -m^2 y$
 $y_2 + m^2 y = 0$

45(b) i) Investment = ₹ 96000
Face value = ₹ 100.
Market value = ₹ 80
No. of shares = $\frac{96000}{80} = 1200$
ii) Total dividend
= No. of shares \times Rate of dividend \times Face value
= $1200 \times \frac{18}{100} \times 100 = 21,600$
iii) Percentage = $\frac{21600}{96000} \times 100 = 22.5\%$

46 (a) $f(x) = x^3 - 3x^2 + 12x + 1$
 $f'(x) = 3x^2 - 6x + 12$
 $f''(x) = 0$
 $6(x+2)(x+1) = 0$.
 $x = -2, x = -1$
 $f(-2) = 2(-8) + 9(4) + 12(-2) + 1 = -3$
 $f(-1) = -4$
 $(-2, -3) \text{ and } (-1, -4)$

(b) $P(E_1) = P(E_2) = \frac{1}{2}$
 $P(A|E_1) = \frac{3}{7}$
 $P(A|E_2) = \frac{5}{11}$
 $P(E_2|A) = \frac{P(E_2) P(A|E_2)}{P(E_1) P(A|E_1) + P(E_2) P(A|E_2)}$
 $= \frac{\frac{1}{2} \cdot \frac{5}{11}}{\left(\frac{1}{2} \cdot \frac{3}{7}\right) + \left(\frac{1}{2} \cdot \frac{5}{11}\right)}$
 $= \frac{35}{68}$

47(R)	X	Y	R _x	R _y	d	d ²
40	45	1	4	-3	9	9
46	46	2	5	-3	9	9
54	50	3	6	-3	9	9
60	43	4	3	1	1	1
70	43	5	1	4	16	16
80	40	6	11	-5	25	25
82	7	7	7	0	0	0
85	75	8	5	-2	4	4
87	72	9	8	1	1	1
90	65	10	2	8	64	64
95	42	11	9	2	4	4
	70					

$$\sum d^2 = 142$$

$$e = 1 - \frac{6 \sum d^2}{N(N^2 - 1)}$$

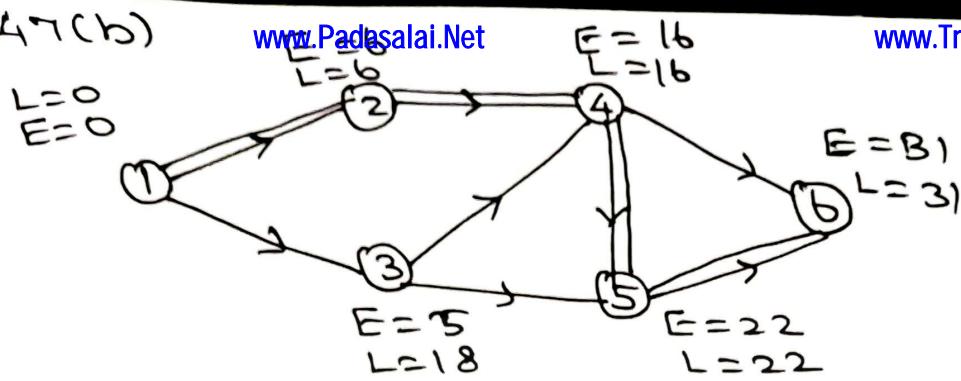
$$= 1 - \frac{6(142)}{11(11^2 - 1)}$$

$$= 1 - \frac{852}{1320}$$

$$P = \frac{1320 - 852}{1320}$$

$$t = 0.354$$

47(b)



Activity	Duration	EST	EFT	LST	LF
1-2	6	0	6	$6-6=0$	6
1-3	5	0	5	$18-5=13$	18
2-4	6	6	16	$16-10=6$	16
3-4	3	5	8	$16-3=13$	16
3-5	4	5	9	$22-4=18$	22
4-5	6	10	22	$22-6=16$	22
4-6	2	16	18	$31-2=29$	31
5-6	9	22	31	$31-9=22$	31

Critical path : $1 \rightarrow 2 \rightarrow 4 \rightarrow 5 \rightarrow 6$.
 duration is 31 days to complete.

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B.G ASST(MATHS)

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