AS PER NEW PATTERN 2023-2024

BASED ON FIRST PUC MODEL QUESTION PAPER SUBJECT : MATHEMATICS (35)

5 SET OF NEW PATTERN QUESTION PAPERS

| TOI | P SCORER POCKET MARK | KS PACKAGE | | | | | | |
|---|---|---|--|--|--|--|--|--|
| PRA | PRACTICE QUESTION PAPER - 01 AS PER NEW PATTERN 2023-2024 | | | | | | | |
| AS | | | | | | | | |
| | N FIRST PUC MODEL Q | | | | | | | |
| | SUBJECT : MATHEMAT | | | | | | | |
| Time: 3 Hrs 15 Min | [TOTAL QUESTIONS : | 52] Max Marks: 80 | | | | | | |
| · · • | a paper has five Parts namely A, B, C, D a 5 multiple choice questions, 5 fill in the b | - | | | | | | |
| | PART-A | | | | | | | |
| I.Answer all the multiple ch | oice questions : | $(15 \times 1 = 15)$ | | | | | | |
| 1. The set $A = \{x : x \text{ is } a \}$ a) $A = \{0,1,2,3,4,5\}$ c) $A = \{1,2,3,4,5\}$ | a natural number less than 6}, in rost | ter form is b) $A = \{0,1,2,3,4,5,6\}$ d) $A = \{ 2, -1, 0,1,2,3,4,5\}$ | | | | | | |
| 2. If $\left(\frac{x+1}{2}, 7\right) = (6,7)$ th | en x is | | | | | | | |
| a) 13 c) 7 | | b) 12 d) 11 | | | | | | |
| 3. The value of $\cos\left(\frac{\pi}{4}\right)$ | $(-x)\cos\left(\frac{\pi}{4}-y\right)-\sin\left(\frac{\pi}{4}-x\right)\sin\left(\frac{\pi}{4}-x\right)$ | <i>y</i>) is | | | | | | |
| a) $sin(x + y)$ | ттт | b) $cos(x + y)$ | | | | | | |
| c) $-sin(x + y)$ | | d) $-cos(x + y)$ | | | | | | |
| 4. The value of $i^9 + i^{19}$ | is | | | | | | | |
| a) 1 c) 2 | | b) -1 d) 0 | | | | | | |
| | | u) 0 | | | | | | |
| 5. If $-12x > 30$ when x | s is a natural number is | h = 25 | | | | | | |
| a) $x < 2.5$ c) $x < 0$ | | b) $x < -2.5$ d) None of these | | | | | | |
| 6. If ${}^{n}c_{7} = {}^{n}c_{6}$ then n is | s | | | | | | | |
| a) 13 | 5 | b) 7 | | | | | | |
| c) 6 | | d) doea not exists | | | | | | |
| 7. If $(1 - 2x)^5$ then the | number of terms in this expansion is | | | | | | | |
| a) 5 | - | b) 4 | | | | | | |
| c) 10 | - ⁿ in | d) 6 | | | | | | |
| 8. The first term of the set $a_1 = \frac{1}{3}$ | equence $a_{1} = \frac{1}{n+1}$ is | h) 2/3 | | | | | | |
| <u>9)</u> [/⊀ | | $D \setminus I \setminus A$ | | | | | | |

a) 1/3 b) 2/3 c) 1/3 d) 1/2

PQP-01

| PUC I YEAR MATHEMATICS 9. Slope of line $3x - 4y + 10 = 0$ is | PQP-01 |
|--|---|
| a) 1/4 c) 3/4 | b) 1/2 d) 1 |
| 10. The radius of circle $(x + 5)^2 + (y - 3)^2 = 36$ is a) 36 | b) 6 |
| c) 5 11. Length of major axis of ellipse $\frac{x^2}{49} + \frac{y^2}{36} = 1$ is | d) 3 |
| a) 49, c) 12, | b) 36, d) 14, |
| 12. The Octant the points (1,2,3) is lies is | |
| a) I, c) III , | b) II,d) IV, |
| 13. The derivative of $x^3 - 27$ w.r.t x at x=2 | |
| a) 8 c) 12 | b) 2 d) 0 |
| 14. The median of the data : 3,9,5,3,12,10,18,4, 7, 19, 21 | is |
| a) 18 | b) 9 |
| c) 12 | d) 10 |
| 15. If $P(A) = \frac{2}{11}$ is the probability of an event A, the pro- | bability of the event not A is |
| a) 2/11 | b) 9/11 |
| c) 0.5 | d) 1 |
| II. Fill in the blanks by choosing the appropriate answer f (5 , 9 , 6 , <i>not defined</i> , | |
| 16. If $A = \{1,3,5\}$ and $B = \{2,4,6\}$ then the number of el 17. The value of $cos3\pi$ is 18. 3! is | lements $A \times B$ is |
| 19. The slope of the line Passing through the points $(3, -20)$. The value of $\lim_{x\to 3} [x(x+1)]$ is | 2) and (3,4) is |

PART-B

 $(6 \times 2 = 12)$

Answer any six questions :

- 21. If $A = \{2,4,6,8\}, B = \{1,2,4,8,16\}$ then find $A \cup B$ and $A \cap B$
- 22. List the all subsets of the set $A = \{a, b, c\}$ 23. Prove that $sin^2 \frac{\pi}{6} + cos^2 \frac{\pi}{3} tan^2 \frac{\pi}{4} = -\frac{1}{2}$
- 24. Find the multiplicative inverse of complex number 4 3i
- 25. Express complex number $\frac{1+2i}{1-i}$ in the form of a + ib
- 26. Solve $3(x-1) \le 2(x-3)$. Show the graph of solution in number line. 27. How many 2 digit even numbers can be formed from the digits 1,2,3,4,5 if the digits can be repeated? 28. Expand : $(x^2 + \frac{3}{x})^4$, $x \ne 0$
- 29. Find the equation of the line passing through the point (-2,3) with slope -4. 30. Evaluate : $\lim_{x\to 3} (\frac{x-3}{x^2-5x+6})$,
- 31. Consider the experiment of rolling a die. Describe the following events: Let A be the event 'getting a prime number', B be the event 'getting an odd number'.

PART-C

Answer any six questions :

- 32. If $U = \{1, 2, 3, 4, 5, 6, 7\}$, $A = \{1, 2, 5, 7\}$ and $B = \{3, 4, 5, 6\}$ then verify $(A \cup B)' = A' \cap B'$
- 33. If $f(x) = x^2$ and g(x) = 2x 1 then find f + g, f g, fg, f/g,
- 34. If $cot x = -\frac{5}{12}$, x lies in second quadrant, find other five trigonometric functions

35. Prove that
$$\cos\left(\frac{3\pi}{4} + x\right) - \cos\left(\frac{3\pi}{4} - x\right) = -\sqrt{2}\sin x$$

36. If
$$z_1 = 2 - i$$
 and $z_2 = -2 - i$ then find $Re\left(\frac{z_1 + 2}{z_1}\right)$

- 37. The marks obtained by a student of class XI in first and second terminal examination are 62 and 48, respectively. Find the minimum marks he should get in the annual examination to have an average of at least 60 marks.
- 38. If A.M and G.M of two positive numbers a and b are 10 and 8, respectively, find the numbers
- 39. Find the equation of the line perpendicular to the line x 2y + 3 = 0 and passing through (1, -2).
- 40. Find the centre and radius of the circle $x^2 + y^2 + 8x + 10y 8 = 0$
- 41. Using distance formula, Show that the points (0,7,-10), (1,6,-6) and (4,9,-6) are the vertices of isosceles triangle
- 42. Find the derivative of *sinx* with respect to x from first principle.

PART-D

Answer any four questions :

- 43. Define modulus function. Draw the graph of modulus function, also write domain and rang
- 44. Prove that $\frac{\sin 5x 2\sin 3x + \sin x}{\cos 5x \cos x} = \tan x$
- 45. A group consists of 4 girls and 7 boys. In how many ways can a team of 5 members be selected if the team has
 - (i) no girl ?
 - (ii) at least one boy and one girl?
 - (iii) at least 3 girls ?
- 46. State and prove Binomial Theorem for all natural number
- 47. Derive the equation of line having intercepts a and b on x and y axes respectively and hence find the equation of the line, which makes intercepts 3 and 2 on the x- and y-axes respectively.
- 48. Prove that geometrically $\lim_{x\to 0} \frac{\sin x}{x} = 1$ where x being measured in radian (Sandwich theorem)
- 49. Find the mean deviation about mean for the following data

| Marks | 10-20 | 20-30 | 30-40 | 40-50 | 50-60 | 60-70 | 70-80 |
|----------------|-------|-------|-------|-------|-------|-------|-------|
| No of Students | 2 | 3 | 8 | 14 | 8 | 3 | 2 |

- 50. A die is thrown, find the probability of following events:
 - (i) A prime number will appear,
 - (ii) A number greater than or equal to 3 will appear,
 - (iii) A number more than 6 will appear,

PART-E

Answer the following questions :

51. a) Define Ellipse as a set of all points in a plane and derive its equation in the form of $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$

OR

b) Prove that geometrically $cos(x + y) = cosx \cdot cosy - sinx \cdot siny$

52. a) Find the sum of n terms of series : 8,88,888,8888, ...

(4M)

b) Find the derivative of
$$\frac{2}{x+1} - \frac{x^2}{3x-1}$$
 w.r.t x

 $(6 \times 3 = 18)$

 $(5 \times 4 = 20)$

TOP SCORER POCKET MARKS PACKAGE

PRACTICE QUESTION PAPER - 02

AS PER NEW PATTERN 2023-2024

BASED ON FIRST PUC MODEL QUESTION PAPER SUBJECT : MATHEMATICS (35)

Time: 3 Hrs 15 Min

[TOTAL QUESTIONS: 52]

Max Marks: 80

Instructions: (1) The question paper has five Parts namely A, B, C, D and E. Answer all the parts. (2) Part-A has 15 multiple choice questions, 5 fill in the blanks questions

PART-A

I.Answer all the multiple choice questions : $(15 \times 1 = 15)$ 1. Let $A = \{1, 2, \{3, 4\}, 5\}$. Which of the following statements are incorrect a) $1 \in A$. b) $\{3, 4\} \in A$ c) $\{3, 4\} \subset A$ d) $2 \in A$ and $\{1,5\} \subset A$ 2. If f(x) = 2x - 5, then f(-3) is a) -6 b) 11 c) -16 d) -11 3. $\sqrt{3}cosec20^{\circ} - sec20^{\circ} = is$ a) 1 b) 2 c) 3 d) 4 4. If $z = 4 + i \left(\frac{-1}{11}\right)$ then Re(z) is a) $\frac{-1}{11}$ b) $\frac{1}{11}$ c) 4 d) -4 5. If $\frac{1}{5} < \frac{1}{3}$ then a) 5 < 3c) $\frac{1}{5} > \frac{1}{3}$ b) 5 > 3d) $\frac{1}{3} < \frac{1}{5}$ How many 2 digit even numbers can be formed from the digits 1,2,3,4,5 if the digits can be repeated? 6. a) 10 b) 25

c) 20 d) 2 7. $C_0 + C_1 + C_2 + C_3 + \dots + C_n =$ a) 0 b) 2^{n-1} d) 2^n

8. If the arithmetic mean of 8 and x is 20 then the value of x is

a) 48 b) 32 c) 28 d) 12

PQP-02

| | YEAR MATHEMATICS | dimention of the second data | PQP-0 |
|----------|---|---|-------|
| 9. | The slope of the line, which makes an angle of 30° with the positive anticlockwise. is | direction of y-axis measured | |
| | a) $\sqrt{3}$ | b) $\frac{1}{-}$ | |
| | c) $-\sqrt{3}$ | b) $\frac{1}{\sqrt{3}}$ d) $-\frac{1}{\sqrt{3}}$ | |
| 10. | The coordinates of focus of the parabola $y^2 = 8x$ is | | |
| | a) (0,2) | b) (0, -2) | |
| | c) (2,0) | d) (-2,0) | |
| 11. | Eccentricity of ellipse is always | | |
| | a) $e > 1$, | b) $e < 1$, | |
| | c) $e = 1$, | d) $e = 2$, | |
| 12. | The Octant the points $(4, -2, 3)$ is lies is | | |
| | a) I, | b) II, | |
| | c) III , | d) IV, | |
| 13. | The value of $\lim_{x \to 0} \frac{\sin ax}{bx}$ | | |
| | a) 1 | b) $\frac{a}{b}$ | |
| | c) $\frac{b}{a}$ | d) 0 | |
| 14. | The mean of the data 6,7,10,12,13,4,8,12 is | | |
| | a) 100 | b) 72 | |
| | c) 8 | d) 9 | |
| 15. | A die is thrown, the probability that prime number will appear, is | | |
| | a) $\frac{1}{2}$ | b) $\frac{2}{3}$ | |
| | c) $\frac{1}{3}$ | d) $\frac{3}{4}$ | |
| | 5 | • | |
| II. Fill | in the blanks by choosing the appropriate answer from those given by $\frac{3}{3}$ in the blanks by choosing the appropriate answer from those given by $\frac{3}{3}$ is the blanks by choosing the appropriate answer from the blanks by choosing the blanks by choosing the appropriate answer from the blanks by choosing the blanks by choosing the appropriate answer from the blanks by choosing the appropriate answer from the blanks by choosing the blanks by choosing the appropriate answer from the blanks by choosing the blanks by choosing the appropriate answer from the blanks by choosing the blanks by | we in the bracket : (5×1) | = 5) |
| | $(2, -\frac{3}{2}, 64, 3, \sqrt{3})$ | | |
| 16 | f(r + 1, 1) = (4, 1) then the value of x is | | |
| 10 | 5. If $(x + 1,1) = (4,1)$ then the value of x is | | |

16. If (x + 1, 1) = (4, 1) then the value of x is 17. If $osx = -\frac{1}{2}$, x lies in third quadrant, then *tanx* is 18. If $\frac{1}{6!} + \frac{1}{7!} = \frac{x}{8!}$ then the value of x is 19. The slope of the line $\frac{x}{4} + \frac{y}{6} = 1$ is 20. The derivative of $2x - \frac{3}{4}$ w.r.t x is PART-B

Answer any six questions :

21. If $A = \{2,4,6,8\}$ and $B = \{6,8,10,12\}$ then find $A \cup B$ and $A \cap B$ 22. If $X = \{a, b, c, d\}$ and $Y = \{f, b, d, g\}$ then find (X - Y) and (Y - X)23. Prove that $\frac{\tan(\frac{\pi}{4} + x)}{\tan(\frac{\pi}{4} - x)} = (\frac{1 + \tan x}{1 - \tan x})^2$ 24. Find the modulus of $\frac{1+2i}{1-3i}$ 25. Find the value of x and y if (x + 2y) + i(2x - 3y) is conjugate of 5 + 4i26. Solve $3(2 - x) \ge 2(1 - x)$. Show the graph of solution in number line.

27. Find n if
$${}^{n}P_{5} = 42 {}^{n}P_{3}, n > 4$$

28. Compute $(101)^4$ by using binomial theorem.

29. Find the equation of the line Passing through the points (1, -1) and (3, 5).

PUC I YEAR MATHEMATICS 30. Evaluate : lim (

 $x \rightarrow 0 \qquad x$

31. A die is thrown. Describe the following events: Let the events are A: a number less than 7, B: a multiple of 3,

PART-C

Answer any six questions :

- 32. If $U = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}$, $A = \{2, 4, 6, 8\}$ and $B = \{2, 3, 5, 7\}$ then verify $(A \cap B)' = A' \cup B'$
- 33. Let $A = \{1, 2, 3, \dots, 14\}$ define the relation R from A to A given by

$$R = \{(x, y): 3x - y = 0, where x, y \in A\}$$
 then write domain, co-domain and range

- 34. Prove that $sin_3x = 3sin_x 4sin_3x$
- 35. If arcs of same length in two circles subtended angles 65° and 110° at the centre. Find ratio of their radii
- 36. Express complex number $\frac{(3+i\sqrt{5})(3-i\sqrt{5})}{(\sqrt{3}+i\sqrt{2})-(\sqrt{3}-i\sqrt{2})}$ in the form of a+ib
- 37. Ravi obtained 70 and 75 marks in first two unit test. Find the minimum marks he should get in the third test to have an average of at least 60 marks.
- 38. Insert 5 numbers between 8 and 26 such that resulting sequence is an A.P
- 39. Find equation of the line parallel to the line 3x 4y + 2 = 0 and passing through the point (-2,3)
- 40. Find the equation of ellipse whose centre at origin, major axis on the y axis and passing through the point (3,2) and (1,6)
- 41. Find the set of equation of points which are equidistance from the points (1,2,3) and (3,2,-1).
- 42. Find the derivative of x^2 with respect to x from first principle

PART-D

Answer any four questions :

- 43. Define signum function. Draw the graph of signum function, also write its domain and range
- 44. Prove that $\cos^2 x + \cos^2 (x + \frac{\pi}{3}) + \cos^2 (x \frac{\pi}{3}) = \frac{3}{2}$
- 45. What is the number of ways of choosing 4 cards from a pack of 52 playing cards? In how many of these (i) four cards are of the same suit,(ii) four cards belong to four differentsuits,
- (iii) are face cards, (iv) two are red cards and two are black cards,(v) cards are of the same colour? 46. For all a,b real numbers and n is a positive integer then prove that
 - $(a+b)^{n} = {}^{n}C_{0}a^{n} + {}^{n}C_{1}a^{n-1}b + {}^{n}C_{2}a^{n-2}b^{2} + \cdots + {}^{n}C_{n}b^{n}$
- 47. Derive the equation of line with slope *m* and y-intercept is *c* and hence Find the equation of line with slope $\frac{1}{2}$ and y-intercept $-\frac{3}{2}$
- 48. Prove that geometrically $\lim_{x \to 0} \frac{\sin x}{x} = 1$ where x being measured in radian (Sandwich theorem) m
- 49. Find the mean deviation about median for the following data

| | | | | | 0 | |
|-----------|-------|-------|-------|-------|-------|-------|
| Class | 00-10 | 10-20 | 20-30 | 30-40 | 40-50 | 50-60 |
| Frequency | 6 | 7 | 15 | 16 | 4 | 2 |

50. Three coins are tossed once. Find the probability of getting (i) 3 heads, (ii) 2 heads, (iii) no head,

PART-E

Answer the following questions :

51. a) Prove that geometrically $cos(x + y) = cosx \cdot cosy - sinx \cdot siny$

b) Define Hyperbola as a set of all points in a plane and derive its equation in the form of $\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$

52. b) Find the sum of n terms of series : 0.6,0.66,0.666,0.6666, ...

b) Find the derivative of $\frac{3sinx-x^5}{4cosx+1}$ w.r.t x

 $(5 \times 4 = 20)$

(4M)

 $(6 \times 3 = 18)$

| PUCI | YEAR MATHEMATI TO | CS P SCORER POCKET I | MARKS PACKAG | FE PQP-03 | | | | | |
|--------|---|--|-------------------------------|---------------------------|--|--|--|--|--|
| | PRA | ACTICE QUEST | ION PAPER - | 03 | | | | | |
| | AS | S PER NEW PATT | FERN 2023-202 | 24 | | | | | |
| | BASED ON FIRST PUC MODEL QUESTION PAPER SUBJECT : MATHEMATICS (35) | | | | | | | | |
| | | | | | | | | | |
| Time | : 3 Hrs 15 Min | [TOTAL QUES | TIONS : 52] | Max Marks: 80 | | | | | |
| Instru | · · · - | on paper has five Parts namely A, 15 multiple choice questions, 5 f | | l the parts. | | | | | |
| | | PART-A | A | | | | | | |
| I.Ans | wer all the multiple c | hoice questions : | | $(15 \times 1 = 15)$ | | | | | |
| 1. | $A \cap A'$ is a) A . c) U . | | b) Α'. d) Φ. | | | | | | |
| 2. | The function 't' wh defined by $t(C) = \frac{90}{5}$ | ich maps temperature in degree $+ 32$ then $t(0)$ is | e Celsius into temperature | e in degree Fahrenheit is | | | | | |
| | a) $\frac{9}{5}$ | | b) 32 | | | | | | |
| | c) -32 | | d) 0 | | | | | | |
| 3. | The value of $sin(n - 1)$ | $(+1)x \cdot sin(n+2)x + cos(n+1)$ | $1)x \cdot cos(n+2)x$ is | | | | | | |
| | a) <i>sinx</i> | | b) <i>cosx</i> | | | | | | |
| | c) <i>-sinx</i> | | d) <i>-cosx</i> | | | | | | |
| 4. | $a + ib$ form of i^{-35} | | | | | | | | |
| | a) 0 + <i>i</i> | | b) 0 − <i>i</i> | | | | | | |
| | c) 1 – 0 <i>i</i> | | d) 1 + 0 <i>i</i> | | | | | | |
| 5. | If $-a > b$ then | | | | | | | | |
| | a) $a < -b$ | | b) $-a < -k$ | | | | | | |
| | c) <i>a</i> < <i>b</i> | | d) None of | these | | | | | |
| 6. | If $\frac{1}{8!} + \frac{1}{9!} = \frac{x}{10!}$ then the | he value of x is | | | | | | | |
| | a) 64 | | b) 81 | | | | | | |
| | c) 100 | | d) 10 × 9 × | 8 | | | | | |
| 7. | If $(a - b)^4$ then the | number of terms in this expansio | n is | | | | | | |
| 7. | a) 5 | number of terms in this expansio | b) 4 | | | | | | |
| | c) 10 | | d) 6 | | | | | | |
| 8. | The third term of the | e sequence if $a_1 = a_2 = 2$, $a_n =$ | $a_{n-1} - 2$ for all $n > 2$ | | | | | | |
| | a) -2 | | b) 2 | | | | | | |
| | c) 4 | | d) 0 | | | | | | |

| 9. | The equation of y-axis is a) $x = 0$ c) $xy = 0$ | b) $y = 0$ d) $x = y$ | | | | |
|----------|--|--|--|--|--|--|
| 10. | The length of latus rectum of the parabola $x^2 = -16y$ is | | | | | |
| | a) 4 | b) 8 | | | | |
| | c) 16 $2 - x^2$ | d) 32 | | | | |
| 11. | Length of minor axis of $\frac{x^2}{49} + \frac{y^2}{26} = 1$ is | | | | | |
| | a) 49, | b) 36, | | | | |
| | c) 12, | d) 14, | | | | |
| 12 | Name the plane which is y axis and z axis taken together | | | | | |
| 12. | a) XY-plane, | b) YZ-plane, | | | | |
| | c) ZX-plane, | d) none of these, | | | | |
| 12 | | | | | | |
| 15. | The derivative of $y = xsinx$ a) $x + cosx$ | b) $x + sinx$ | | | | |
| | c) $x cosx + sinx$ | d) $x \cos x - \sin x$ | | | | |
| 14 | Veriance for ungrouped data is 16 then the value of standard devia | | | | | |
| 11. | a) 4 | b) 256 | | | | |
| | c) 32 | d) 64 | | | | |
| 15. | A coin is tossed twice, then the probability that atleast one tail occ | urs is | | | | |
| | a) $\frac{1}{4}$ | b) $\frac{1}{2}$ | | | | |
| | c) $\frac{3}{4}$ | d) $\frac{1}{3}$ | | | | |
| | · 4 | 3 | | | | |
| II. Fill | in the blanks by choosing the appropriate answer from those given by $r_{19\pi}^{19\pi}$ | we in the bracket : $(5 \times 1 = 5)$ | | | | |
| | 19π 2 4 | | | | | |

 $\left(-\frac{19\pi}{72}, 2, 1, \frac{2}{101}, \frac{4}{9}\right)$

16. If $A = \{1,2\}$ and $B = \{x : x \in N \text{ and } x^2 - 9 = 0\}$ then the number of elements $A \times B$ is 17. If $\theta = -47^{\circ}30'$ then radian measure is 18. If $nc_9 = nc_8$ then nc_{17} is 19. The slope of the line Passing through the points (5,6) and (-4,2) is 20. The value of $\lim_{x \to 1} (\frac{x^{2+1}}{x+100})$ is

PART-B

Answer any six questions :

- 21. If $A = \{a, e, i, o, u\}, B = \{a, i, u\}$ then find $A \cup B$ and $A \cap B$
- 22. Draw the appropriate Venn diagram for A B23. Prove that $\cot^2 \frac{\pi}{6} + \csc \frac{5\pi}{6} + 3\tan^2 \frac{\pi}{6} = 6$
- 24. Find the value of x and y if (x iy)(3 + 5i) is conjugate of -6 24i
- 25. Find the multiplicative inverse of complex number $\sqrt{5} + 3i$
- 26. Solve $5x 3 \ge 3x 5$. Show the graph of solution in number line.
- 27. A bag contains 5 black and 6 red balls. Determine the number of ways in which 2 black and 3 red balls can be selected.

28. Expand :
$$(x + \frac{1}{x})^6, x \neq 0$$

- 29. Reduce the equation 6x + 3y 5 = 0 into slope intercept form, find slope and the y-intercept.
- 30. Evaluate : $\lim_{z \to 1} (\frac{z^{1/3} 1}{z})$

31. A coin is tossed three times, Describe the following events: Let A: 'No head appears', B: 'Exactly one head appears'

PART-C

Answer any six questions :

- 32. Taking the set of natural numbers as the universal set. If $A = \{x : x \in N \text{ and } 2x + 1 > 10\}$ and $B = \{x : x \in N \text{ and } 3x + 1 > 8\}$. Find A' and B'
- 33. If f(x) = x + 1 and g(x) = 2x + 3 then find f + g, f g, fg, f/g,
- 34. If $sinx = \frac{3}{5}$, x lies in second quadrant, find other five trigonometric functions
- 35. Prove that $tan3x = \frac{3tanx tan^3x}{1 3tan^2x}$

36. If $(x + iy)^3 = u + iv$ then show that $\frac{u}{x} + \frac{v}{y} = 4(x^2 - y^2)$

- 37. Find all pairs of consecutive even positive integers, both of which are larger than 5, such that their sum is less than 23.
- 38. Sum of first three terms of a G.P is $\frac{39}{10}$ and their product is 1 find the common ratio and terms
- 39. Find the equation of the line perpendicular to the line x 7y + 5 = 0 and having x intercept 3.
- 40. Find the coordinates of focus, axis, equation of directrix and length of latus rectum of the parabola $y^2 =$ 8x
- 41. Using distance formula, Show that the points (-2,3,5), (1,2,3) and (7,0,-1) are collinear
- 42. Find the derivative of *tanx* with respect to x from first principle

PART-D

Answer any four questions :

- 43. Define greatest integer function. Draw the graph of it, also write its domain and range
- 44. Prove that cos4x + cos3x + cos2x = cot3xsin4x+sin3x+sin2x
- 45. How many words, with or without meaning can be made from the letters of the word MONDAY, assuming that no letter is repeated, if.
 - (i) 4 letters are used at a time, (ii) all letters are used at a time,
 - (iii) all letters are used but first letter is a vowel?
- 46. State and prove Binomial Theorem for all natural number
- 47. Derive the formula for distance of a point (x_1, y_1) from the line Ax + By + C = 0 geometrically
- 48. Prove that geometrically $\lim_{x\to 0} \frac{\sin x}{x} = 1$ where x being measured in radian (Sandwich theorem)
- 49. Find the mean deviation about mean for the following data

| x_i | 5 | 10 | 15 | 20 | 25 |
|-------|---|----|----|----|----|
| fi | 7 | 4 | 6 | 3 | 5 |

50. One card is drawn from a well shuffled deck of 52cards. If each out come is equally likely, calculate the probability that the card will be (i) a diamond (ii) not an ace (iii) a black card (i.e., a club or, a spade)

PART-E

Answer the following questions :

51. a) Define Hyperbola as a set of all points in a plane and derive its equation in the form of $\frac{x^2}{r^2} - \frac{y^2}{r^2} = 1$

OR

b) Prove that geometrically $cos(x + y) = cosx \cdot cosy - sinx \cdot siny$

52. a) Find the derivative of $\frac{\cos x}{1+\sin x}$ w.r.t x

OR

b) Find the sum of n terms of series : 7,77,777,777, ...

 $(6 \times 3 = 18)$

 $(5 \times 4 = 20)$

(4M)

| PUC I YEAR MATHEMATICS TOP SCORER POCKET MARKS PACKAGE | | | | | | |
|---|---|--|--|--|--|--|
| | CTICE QUESTION PAPER - 04 | | | | | |
| AS F | PER NEW PATTERN 2023-2024 | | | | | |
| | FIRST PUC MODEL QUESTION PAPER JBJECT : MATHEMATICS (35) | | | | | |
| Time: 3 Hrs 15 Min | [TOTAL QUESTIONS : 52] Max Marks: 80 | | | | | |
| Instructions: (1) The question paper has five Parts namely A, B, C, D and E. Answer all the parts. (2) Part-A has 15 multiple choice questions, 5 fill in the blanks questions | | | | | | |
| T. A | PART-A | | | | | |
| I. Answer all the multiple choice $1 - The set A = \{u, v, v, C, P, v\}$ | - | | | | | |
| 1. The set $A = \{x : x \in R \ a \in (0,7)\}$ c) [0,7] | and $0 \le x < 7$ } then interval form is b) (0,7] d) [0,7) | | | | | |
| 2. If $f(x) = 2 - 3x, x \in R$ a) $[2, \infty)$ c) $[-1, \infty)$ | , $x > 0$ then range is b) $(2, \infty)$ d) $[-1, \infty)$ | | | | | |
| 3. If $\frac{3\pi}{4}$ it is in radians then | degree measure is | | | | | |
| a) 540° | b) 45 ⁰ | | | | | |
| c) 180 ⁰ | d) 135 ⁰ | | | | | |
| 4. least positive integral va | lue of m if $\left(\frac{1+i}{1-i}\right)^m = 1$ | | | | | |
| a) 1 | b) Z | | | | | |
| c) 3 | d) 4 | | | | | |
| 5. If $-\frac{2}{a} > \frac{b}{3}$ then | | | | | | |
| a) $ab < -6$ | b) $ab < 6$ | | | | | |
| c) $ab > -6$ | d) $ab > \frac{a}{b}$ | | | | | |
| • | e drawn through 21 points on a circle? | | | | | |
| a) 420 | b) 210 d) 840 | | | | | |
| c) 21 | d) 840 | | | | | |
| | $-C_5 + C_6 - C_7 + \dots = b) 2^{n-1}$ | | | | | |
| a) 0 c) 2^{n-2} | d) 2^{n-1} | | | | | |
| | numbers $-\frac{2}{7}$, x, $-\frac{7}{2}$ are in G.P | | | | | |
| a) ² / ₇ | $7 	 2 	 b) \frac{7}{2}$ | | | | | |
| 7 c) 1 | 2 d) 0 | | | | | |

| PUC I | YEAR MATHEMATICS | | PQP-04 |
|-------|--|-----------------------------|--------|
| 9. | If m_1 and m_2 are the slopes of lines then condition for these two li | ines are parallel is | |
| | a) $m_1 \cdot m_2 = -1$ | b) $m_1 \cdot m_2 = 1$ | |
| | c) $m_1 = -m_2$ | d) $m_1 = m_2$ | |
| 10. | Equation of circle with centre at origin and radius is r is | | |
| | a) $x^2 - y^2 = r^2$ | b) $x^2 + (y - r)^2 = r^2$ | |
| | c) $(x - r)^2 + y^2 = r^2$ | d) $x^2 + y^2 = r^2$ | |
| 11. | Eccentricity of hyperbola is always | | |
| | a) $e > 1$, | b) $e < 1$, | |
| | c) $e = 1$, | d) $e = 2$, | |
| 12. | If a point is on z axis then what are the x coordinate and y coordin | ate, respectively | |
| | a) 0 and 1, | b) 1 and 0, | |
| | c) 1 and 1 , | d) 0 and 0, | |
| 13. | The value of $\lim_{x \to \pi} \frac{\sin(\pi - x)}{\pi(\pi - x)}$ | | |
| | a) $\frac{1}{\pi(\pi-x)}$ | b) $\pi(\pi - x)$ | |
| | c) $\frac{1}{\pi}$ | d) $\frac{1}{(\pi-x)}$ | |
| 14. | For a discrete frequency distribution consider Variance as V and S | tandard deviation as S then | |
| | a) $V = S$ | b) $V^2 = S$ | |
| | | | |

- c) $S^2 = V$ d) S = 2V
- 15. Let *S* is a sample space of a random experiment and A be the one of the event of S. If A is sure event then a) A = Sb) $A \neq S$ c) $A = \emptyset$ d) none of these

II. Fill in the blanks by choosing the appropriate answer from those give in the bracket : $(5 \times 1 = 5)$ $(30, -\frac{2}{3}, 4, \frac{1}{\sqrt{2}}, 99)$

16..... elements are there in this relation $R = \{(x, x^3) : x \text{ is a prime number less than 10}\}$ 17. The value of $sin765^0$ is 18. If n = 6 and r = 2 then the value of $\frac{n!}{(n-r)!}$ is

19. Equation of a line is 2x + 3y - 4 = 0. Then the slope is

20. The derivative of 99x at x = 100 is

PART-B

Answer any six questions :

- 21. If $A = \{1,2,3,4,5,6,7,8,9,10\}, B = \{2,3,5,7\}$ then find $A \cup B$ and $A \cap B$ 22. If A=set of letters in "ALLOY" and B=set of letters in "LOYAL". Is A and B are equal? 23. Prove that $\frac{\cos(\pi + x)\cos(\pi x)}{\sin(\pi - x)\cos(\pi x)} = \cot^2 x$ 24. If $x - iy = \sqrt{\frac{a-ib}{c-id}}$ then prove that $(x^2 + y^2)^2 = \frac{a^2 + b^2}{c^2 + d^2}$ 25. Express $(-\sqrt{3} + \sqrt{-2})(2\sqrt{3} - i)$ in the form of a + ib26. Solve 7x + 3 < 5x + 9. Show the graph of solution in number line. 27. Find n if $\frac{^{n_{P_4}}{n^{-1_{P_4}}}{=} \frac{5}{3}, n > 4$ 28. Which is larger $(1.01)^{1000000}$ or 10000 by using binomial theorem
- 29. Reduce the equation 3x + 2y 12 = 0 into intercept form and find x and y intercepts on the axes.

PQP-04

30. Evaluate : $\lim_{x \to 2} (\frac{3x^2 - x - 10}{x^2 - 4})$

31. An experiment involves rolling a pair of dice and recording the numbers that come up. Describe the following events: A: the sum is greater than 8, B: the sum is at least 7 and a multiple of 3

PART-C

Answer any six questions :

- 32. If $U = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}, A = \{1, 2, 3, 4\}$ and $B = \{2, 4, 6, 8\}$ then verify $(A \cup B)' = A' \cap B'$
- 33. If $A = \{2,4,6\}$ and $B = \{1,3\}$ then prove that $A \times B \neq B \times A$ 34. Prove that $\cos(\frac{3\pi}{2} + x)\cos(2\pi + x)[\cot(\frac{3\pi}{2} x) + \cot(2\pi + x)] = 1$

35. Prove that $\frac{\sin(x+y)}{\sin(x-y)} = \frac{\tan x + \tan y}{\tan x - \tan y}$ 36. If $z_1 = 2 - i$ and $z_2 = 1 + i$ then find $\left| \frac{z_1 + z_2 + 1}{z_1 - z_2 + 1} \right|$

- 37. Find all pairs of consecutive odd natural numbers, both of which are more than 50, such that their sum is less than 120.
- 38. Insert 3 numbers between 1 and 256 such that resulting sequence is an G.P
- 39. Find equation of the line parallel to the line 4x 2y + 7 = 0 and passing through the point (2, -4)
- 40. Find the equation of parabola with focus (0, -3) and directrix y = 3
- 41. Find the set of equation of points which are equidistance from the points (3,4,-5) and (-2,1,4).
- 42. Find the derivative of $\frac{1}{2}$ with respect to x from first principle

PART-D

Answer any four questions :

- 43. Define modulus function. Draw the graph of modulus function, also write domain and rang 44. Prove that $cos 2xcos \frac{x}{2} cos 3xcos \frac{9x}{2} = sin 5xsin \frac{5x}{2}$
- 45. Find the number of different 8-letter arrangements that can be made from the letters of the word DAUGHTER so that (i) all vowels occur together (ii) all vowels do not occur together.
- 46. For all a,b real numbers and n is a positive integer then prove that
- $(a + b)^n = {}^nC_0a^n + {}^nC_1a^{n-1}b + {}^nC_2a^{n-2}b^2 + \cdots + {}^nC_nb^n$
- 47. Derive the distance between two parallel lines $y = mx + c_1$ and $y = mx + c_2$ 48. Prove that geometrically $\lim_{x\to 0} \frac{\sin x}{x} = 1$ where x being measured in radian (Sandwich theorem)
- 49. Find the mean deviation about median for the following data

| χ_i | 5 | 7 | 9 | 10 | 12 | 15 |
|----------|---|---|---|----|----|----|
| fi | 8 | 6 | 2 | 2 | 2 | 6 |

- 50. A card is selected from a pack of 52cards.
 - (a) How many points are there in the sample space?
 - (b) Calculate the probability that the card is an ace of spades.
 - (c) Calculate the probability that the card is (i) an ace (ii) black card.

PART-E

Answer the following questions :

51. a) Prove that geometrically $cos(x + y) = cosx \cdot cosy - sinx \cdot siny$

OR

b) Define Ellipse as a set of all points in a plane and derive its equation in the form of $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$

52. a) Find the derivative of $\frac{sinx+cosx}{sinx-cosx}$ w.r.t x

a) Find the 20th term of the series $2 \times 4 + 4 \times 6 + 6 \times 8 + ... + n$ terms

 $(5 \times 4 = 20)$

 $(6 \times 3 = 18)$

| PUC | I YEAR MATHEMATICS TOP SO | CORER POCKET M | ARKS PACKA | PQP-05 GE |
|--------|---|--|---|----------------------|
| | PRAC | FICE QUESTI | ON PAPER | - 05 |
| | AS Pl | ER NEW PATT | ERN 2023-20 | <u>24</u> |
| | | FIRST PUC MOD BJECT : MATHE | • | N PAPER |
| Time | : 3 Hrs 15 Min | [TOTAL QUEST] | | Max Marks: 80 |
| Instru | (2) Part-A has 15 mu | er has five Parts namely A, B ltiple choice questions, 5 fill eet for the question on linear | in the blanks questions | - |
| | | PART-A | | |
| | wer all the multiple choice | - | | $(15 \times 1 = 15)$ |
| 1. | The number of all subsets a) 0. c) 2 | of the set Ø | b) 1 d) 4 | |
| 2. | If $f(x) = \sqrt{9 - x^2}$ then d a) (-3,3) c) (0,3) | omain is | b) [-3,3] d) [0,3] | |
| 3. | If $\frac{7\pi}{6}$ it is in radians then do | egree measure is | | |
| | a) 30 ⁰ c) 180 ⁰ | | b) 210 ⁰ d) 1260 ⁰ | |
| 4. | $a + ib$ form of $(-5i) (-\frac{3}{5})$ | <i>i</i>) | | |
| | a) 0 + 0 <i>i</i> c) 1 + 5 <i>i</i> | | b) −3 + 0 <i>i</i> d) 0 − 5 <i>i</i> | |
| 5. | If $-x > 3$ when x is a real a) $x < 3$ c) $x < -3$ | number is | b) $-x > -d$) None of | |
| 6. | In how many ways can 5 g a) $5! \times 3!$ c) $\frac{5! \times 6!}{3!}$ | girls and 3 boys be selected in | a row so that no two b b) $\frac{5!\times3!}{8!}$ d) $\frac{5!\times3!}{(5\times3)!}$ | oys are together. |
| | | | | |
| 7. | b a | er of terms in this expansion i | | |
| | a) 5 c) 10 | | b) 4 d) 6 | |
| | c) 10 | | d) 6 | |

- The second term of the sequence $a_{i} = \frac{2n+3}{6}$ is 8.
 - b) $\frac{2}{3}$ a) <u>5</u> 6
 - c) $\frac{1}{6}$ d) <u>7</u>
- 9. If the equation of line is 3x-4y+10 = 0 then its y intercept is
 - a) $-\frac{3}{4}$ c) $-\frac{5}{2}$ b) $\frac{5}{2}$ d) <u>3</u>
- 10. The centre of circle $(x + 5)^2 + (y 3)^2 = 36$ is a) (5,3)
- c) (-5, -3)d) (-5,3)11. Eccentricity of ellipse $\frac{x^2}{49} + \frac{y^2}{36} = 1$ is
 - b) $\frac{\sqrt{13}}{7}$, d) $\frac{7}{\sqrt{13}}$, a) $\frac{13}{7}$, c) $\frac{7}{13}$,
- 12. The distance between the pair of points (2, -1, 3) and (-2, 1, 3) is

| | b) √20, |
|------------------|---------|
| c) $\sqrt{53}$, | d) 12, |

- 13. The derivative of $6x^{100} x^{55} + x$ w.r.t x is a) $6x^{100} - x^{55} + x$ c) $600x^{99} - 55x^{54} + 1$
- 14. The mean for the data12,3,18,17,4,9,17,19,20,15,8,17,2,3,16,11,3,1,0,5 is a) 18 b) 9 c) 12 d) 10
- 15. A letter is chosen at random from the word 'ASSASSINATION'. The probability that letter is a vowel b) $\frac{6}{13}$ d) $\frac{8}{13}$ a) $\frac{5}{13}$

b) (5, -3)

b) $600x^{100} - 55x^{55} + 1$

d) $600x^{101} - 55x^{56} + 1$

c) $\frac{7}{13}$

Answer any six questions :

II. Fill in the blanks by choosing the appropriate answer from those give in the bracket : $(5 \times 1 = 5)$ $(\sqrt{3}, 1, 28, \frac{\sqrt{3}-1}{\sqrt{3}+1}, \frac{21}{10})$

$$\sqrt{3}+1$$

- 16. If $f(x) = x^2$ then $\frac{f^{(1,1)-f(1)}}{(1,1-1)}$ is 17. The value of $tan15^{\circ}$ is
- 18. Value of $\frac{8!}{6!2!}$ is
- 19. The line, which makes inclination of 60° with the positive direction of *x*-axis. Then slope is 20. The value of $\lim_{x \to 1} \frac{ax^2+bx+c}{cx^2+bx+a}$ is

PART-B

- 21. If $A = \{3, 5, 7, 9, 11\}, B = \{7, 9, 11, 13\}$ and $C = \{11, 13, 15\}$ then find $A \cap (B \cup C)$
- 22. If A= set of letters needed to spell CATARACT and B= set of letters needed to spell TRACT. Is A and B are equal?
- 23. Prove that $\cos\left(\frac{\pi}{4} + x\right) + \cos\left(\frac{\pi}{4} x\right) = \sqrt{2}\cos x$

- 24. Find the least positive integral value of m if $\left(\frac{1+i}{1-i}\right)^m = 1$
- 25. Find multiplicative inverse of complex number 3 4i
- 26. Solve 4x + 3 < 6x + 7. Show the graph of solution in number line.
- 27. How many 3-digit numbers can be formed from the digits 1,2,3,4 and 5 assuming that repetition of the digits is allowed? 28. Expand : $\left(\frac{x}{3} + \frac{1}{x}\right)^5$, $x \neq 0$ 29. Find the equation of line with slope $\frac{1}{2}$ and y-intercept $-\frac{3}{2}$

- 30. Evaluate : $\lim_{x \to 0} (\frac{(x+1)^5 1}{x})$
- 31. A die is rolled. Let E : be the event "die shows 4" F : be the event "die shows even number" Are E and F mutually exclusive?

PART-C

Answer any six questions :

- 32. If $U = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}, A = \{1, 2, 3, 4\}$ and $B = \{3, 4, 5, 6\}$ then verify $(A \cap B)' = A' \cup B'$
- 33. Write the relation $R = \{(x, x + 5) : x \in \{0, 1, 2, 3, 4, 5\}\}$ in roster form and write domain and range
- 34. If $secx = \frac{13}{5}$, x lies in fourth quadrant, find other five trigonometric functions
- 35. Find the radius of the circle in which a central angle of 60° intercepts an arc of length 37.4 cm $(use \pi = \frac{22}{7})$
- 36. Express complex number $\left(\frac{1}{1-4i} \frac{2}{1+i}\right) \left(\frac{3-4i}{5+i}\right)$ in the form of a + ib
- 37. Find all pairs of consecutive odd natural numbers, both of which are larger than 10, such that their sum is less than 40.
- 38. If A.M and G.M of roots of quadratic equation are 8 and 5, respectively, then obtain the quadratic equation.
- 39. Find the equation of the line passing through (-3,5) and perpendicular to the line through the points (2,5) and (-3,6).
- 40. Find the equation of hyperbola where foci $(0, \pm 13)$ and length of conjugate axis is 24 units
- 41. If origin is the Centroid of the triangle PQR with vertices P(2a, 2, 6), Q(-4, 3b, -10) and R(8, 14, 2c)then find the values of a, b, c
- 42. Find the derivative of *cosx* with respect to x from first principle

PART-D

Answer any four questions :

 $(5 \times 4 = 20)$

 $(6 \times 3 = 18)$

- 43. Define signum function. Draw the graph of signum function, also write its domain and range 44. Prove that $\frac{(sin7x+sin5x)+(sin9x+sin3x)}{(cos7x+cos5x)+(cos9x+cos3x)} = tan6x$
- 45. A committee of 7 has to be formed from 9 boys and 4 girls. In how many ways can this be done when the committee consists of
 - (i) exactly 3 girls?
 - (ii) atleast 3 girls?
 - (iii) atmost 3 girls?
- 46. State and prove Binomial Theorem for all natural number
- 47. Derive the formula for the angle between two lines whose slopes are m_1 and m_2 also write the condition for two lines are parallel and perpendicular
- 48. Prove that geometrically $\lim \frac{\sin x}{\sin x} = 1$ where x being measured in radian (Sandwich theorem)

$$x \rightarrow 0 \quad x$$

49. Find the mean deviation about median for the following data

| Age | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| Number | 5 | 6 | 12 | 14 | 26 | 12 | 16 | 9 |

50. Two students Anil and Ashima appeared in an examination. The probability that Anil will qualify the examination 0.05 and that Ashima will qualify the examination is 0.10. The probability that both will qualify the examination is 0.02. Find the probability that

- (a) Both Anil and Ashima will not qualify the examination.
- (b) Atleast one of them will not qualify the examination and

(c) Only one of them will qualify the examination.

PART-E

Answer the following questions :

51. a) Define Parabola as a set of all points in a plane and derive its equation in form of $y^2 = 4ax$

OR

b) Prove that geometrically $cos(x + y) = cosx \cdot cosy - sinx \cdot siny$

52. a) Find the sum of n terms of series : 5,55,555,5555, ...

OR

b) Find the derivative of $\frac{x + cosx}{tanx}$ w.r.t x

AS PER NEW PATTERN 2023-2024 TOP SCORER POCKET MARKS PACKAGE

FEATURES OF THE BOOK PUC II YEAR MATHEMATICS

- Blue print of the Question Paper and Question Paper Pattern
- Chapter wise detailed solutions of
 - Multiple Choice Questions (MCQ)
- Chapter wise detailed solutions of

Fill in the Blanks (FB)

- Chapter wise Question Papers (Test Papers)
 - > For FIRST UNIT TEST and SECOND UNIT TEST
 - > PROJECTS/ACTIVITY/ASSIGNEMENT
- Passing Package and Scoring Package
- Different Set of Question Papers (Prepared by experts)
 - > 10 Set of SAMPLE QUESTION PAPER
 - > 10 Set of PRACTICE QUESTION PAPER
- Chapter wise detailed solutions of All the Previous
 - > Annual Examination/ Supplementary Examination/

Preparatory Examination/ Expected questions

(4M)

PUC I YEAR MATHEMATICS SPECIAL NOTE :

For Annual Examination, the most possible Questions are there in this **TOP SCORER POCKET MARKS PACKAGE** book. If you practice all the questions from this Booklet, you will get **100/100 marks** in Annual examination for sure. (Included theory and project/activity/assignment)

KABBUR PUBLICATIONS, SAVADATTI

If you want to score more, refer this book. Contact: 9738237960

In this booklet,

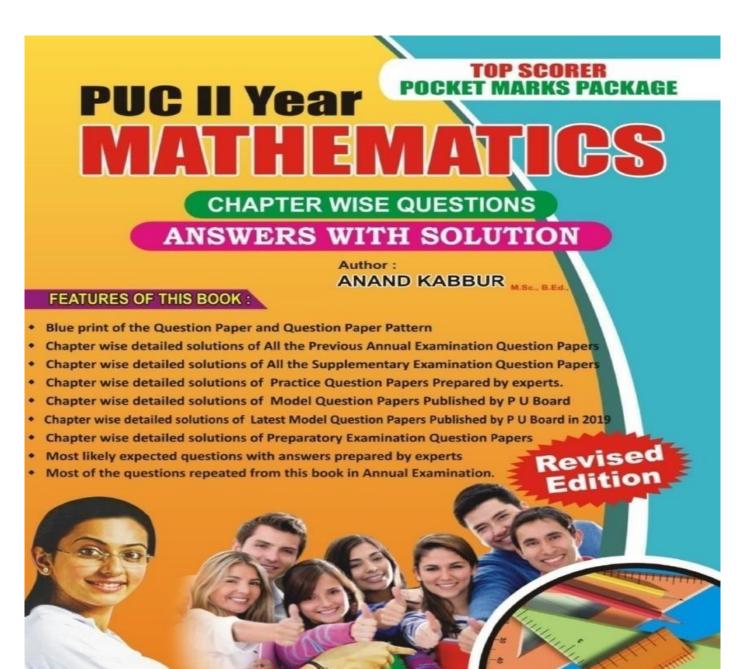
| QUESTION PAPERS | NOTATION | TOTAL |
|---|--|-------|
| MODEL QUESTION PAPERS | MQP-01, MQP-02, MQP-03, MQP-04, MQP-05, MQP-06, MQP-07, MQP-08 | 8 |
| ANNUAL EXAM QUESTION PAPERS | MARCH-2014, MARCH-2015, MARCH-2016, MARCH-2017, MARCH-2018, MARCH-2019 MARCH-2020, AUGUST-2021, MARCH-2022 MARCH-2023 | 10 |
| SUPPLEMENTARY QUESTION PAPERS | JUNE-2014, JUNE-2015, JUNE-2016, JUNE-2017, JUNE-2018, JUNE-2019 JUNE-2020, SEPTEMBER-2022, JUNE-2023, AUGUST-2023 | 10 |
| STATE LEVEL PREPARATORY QUESTION PAPERS | PQP-01, PQP-02, PQP-03, PQP-04, PQP-05, PQP-06, PQP-07, PQP-08, PQP-09, PQP-10, | 10 |
| LATEST MODEL QUESTION PAPERS | 2019MQP-1, 2019MQP-2, 2019MQP-3 2021MQP-1, 2021MQP-2, 2022MQP-1, 2023MQP-2 | 7 |
| PRACTICE QUESTION PAPERS PREPARED BY EXPERTS BASED ON NEW PATTERN 2023-2024 | EPQP-01, EPQP-02, EPQP-03, EPQP-04, EPQP-05, EPQP-06, EPQP-07, EPQP-08 EPQP-09, EPQP-10 | 10 |
| SAMPLE QUESTION PAPERS PREPARED BY EXPERTS BASED ON NEW PATTERN 2023-2024 | SQP-01, SQP-02, SQP-03, SQP-04, SQP-05, SQP-06, SQP-07, SQP-08, SQP-09, SQP-10, | 10 |
| MOST LIKELY EXPECTED QUESTIONS WITH ANSWERS PREPARED BY EXPARTS | | 25 |
| TOTAL QUESTION PAPERS WITH CHAPTERWISE SOLUTION | | 100 |

SPECIAL NOTE :

For Annual Examination, the most possible Questions are there in this **TOP SCORER POCKET MARKS PACKAGE** book. If you practice all the questions from this Booklet, you will get **100/100 marks** in Annual examination for sure. (Included theory and project/activity/assignment)

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