

**WAVOO WAJEEHA WOMEN'S COLLEGE OF ARTS
AND SCIENCE, KAYALPATNAM-628204**

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli)

Run by: WAVOO SAR EDUCATIONAL TRUST

(Minority Institution)

**INDUCTION PROGRAMME THROUGH BRIDGE COURSE
REPORT (2023-2024)**



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Department of Mathematics

Syllabus For Bridge Course(2023-2024)

Unit – I

1 Hr

Polynomial – System of linear equations with two unknown x&y – Quadratic Polynomials – Relation Between roots and Coefficient – Square root of a polynomial – Binomial theorem – Matrices and Determinant.

Unit – II

1 Hr

Differentiation – Basic Formulas – Product Rule – Quotient rule –Derivative of a composite function,

Unit – III

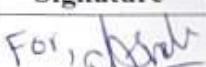
1 Hr

Integration – Basic Formulas – parametric functions – Definite Integrals

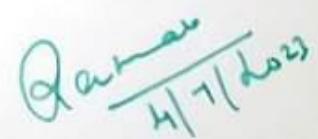
Unit – IV

1 Hr

Reasoning – Coding – Mensuration problems

S.No	Topics Covered	Staff Handling	Signature
1	UNIT - I - Algebra	Miss.J.Jeney Selina	
2	UNIT - II - Differentiation	Mrs.V.Subprabha	
3	UNIT - III - Integration	Miss.M.Kavitha	
4	UNIT - IV - Reasoning	Miss.M.Muthulakshmi	


HOD


Principal

PRINCIPAL

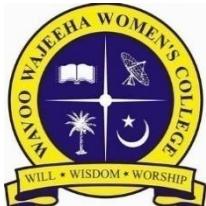
**Qarim
4/7/2023**

WAVO WAJEEHA WOMEN'S COLLEGE OF ARTS & SCIENCE, KAYALPATNAM.

BRIDGE COURSE ATTENDANCE SHEET - YEAR - 2023 - 2024

ATTENDANCE SHEET - YEAR - 2023 - 2024

BATCH:2023-2026



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Bridge Course Question Paper

Class: I B.Sc., Mathematics

Total: 20 Marks

1. If $a^*b = 2a-3b+ab$, then 3^*5+5^*3 is equal to

a) 22 b) 24 c) 26 d) 28

2. If $x = -2/3$, then $9x^2 - 3x - 11$ is equal to

a) -13 b) 13 c) -5 d) -17

3. Find the product of two consecutive numbers where four times the first number is 10 more than thrice the second number.

a) 210 b) 156 c) 182 d) 306

4. If $-4x + 5y$ is subtracted from $3x + 2y$ then the answer will be

a) $3x + 6y$ b) $2x + 5y$ c) $x - 3y$ d) $x + 3y$

5. If $a = 20$, $b = 35$ and $c = 5$ then $(4a + b)/c$ is

a) 23 b) 115 c) 53 d) 43

6. What is the value of $d/dx (\sin x^3 \cos x^2)$?

a) $3x^2 \cos x^2 \cos x^3 + 2x \sin x^3 \sin x^2$ b) $3x^2 \cos x^2 \cos x^3 - 2x \sin x^3 \sin x^2$
c) $2x \cos x^2 \cos x^3 - 2x \sin x^3 \sin x^2$ d) $2x \cos x^2 \cos x^3 + 3x^2 \sin x^3 \sin x^2$

7. What is the value of $\ln 3/x$?

a) $2/x^3$ b) $-3/x^3$ c) $-9/x^3$ d) $9/x^3$

8. What is the value of $d/dx(\cos^2 x \tan x)$ at $x = 1$?

a) -1 b) 0 c) -2 d) 1

9. Find the derivative of e^{x^2} .

a) e^{x^2} b) $2x$ c) $2e^{x^2}$ d) $2xe^{x^2}$

10. Differentiate $\sin(3x+5)$

a) $\cos(3x+5)$ b) $3\cos(3x+5)$ c) $\cosec(3x+5)$ d) $3\cosec(3x+5)$

$$11. \int \frac{\sin x}{\cos^2 x} dx$$

a) $\sec x + C$ b) $-\operatorname{Sec} x + C$ c) $\operatorname{Cosec} x + C$ d) $-\operatorname{Cosec} x + C$

$$12. \int \frac{10x^3 - 4}{x^5} dx$$

a) $\frac{5}{2}x^4 + x^{-4} + C$ b) $-10x + \frac{1}{x^4} + C$ c) $-\frac{10}{-3x^3} + \frac{2}{3x^6} + C$ d) none

$$13. \int x \sin x dx$$

a) $\cos x + \sin x + C$ b) $\sin x + C$ c) $-x \cos x + \sin x + C$ d) $\tan x + C$

$$14. \int \frac{1}{\sin^2 x} dx$$

a) $\tan x + C$ b) $-\operatorname{Cot} x + C$ c) $-\operatorname{Cosec} x + C$ d) $\sin x + C$

$$15. \int x^{11} dx$$

a) $\frac{x^{12}}{12} + C$ b) $\frac{x^{10}}{10} + C$ c) $-\frac{x^{12}}{12} + C$ d) $x^{12} + C$

16. What number should come next? 36, 34, 30, 28, 24, ...

a) 20 b) 22 c) 23 d) 26

17. Complete the series 1, 3, 6, 10, 15, ____.

a) 31 b) 21 c) 20 d) 30

18. Find the odd man out: 9, 18, 27, 38, 45, 54, 63.

a) 45 b) 27 c) 38

19. Find the odd man out 3, 5, 11, 14, 17, 21

a) 21 b) 17 c) 14 d) 3

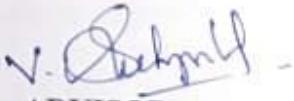
20. What number should come next? 8, 22, 8, 28, 8, ...

a) 9 b) 29 c) 32 d) 34



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Marks – Bridge Course (2023-24)

S.No	Name	Marks
1	R.Dharani	7
2	S.B. FathimaMahdiya	12
3	B.FathimaRila	16
4	N.GnanaMuthu Lakshmi	17
5	M.IqshanaBarvin	13
6	S.Jothika	10
7	M.Malaiyammal	8
8	C.MuthuPriya	5
9	O.Oviya	15
10	S.PanimayaRoshini	9
11	M.Ramya	10
12	M.RinosaBanu	17
13	M.SaffrinShiba	AB
14	I. ShanmugaPriya	11
15	K.M.SyedRabiyathoolMisiriya	10
16	J.YasmineHametha	10


ADVISOR


HOD


PRINCIPAL

