WAVOO WAJEEHA WOMEN'S COLLEGE
OF ARTS AND SCIENCE, KAYALPATNAM
(Affiliated to Manonmaniam Sundaranar University, Tirunelveli)
Run by Wavoo SAR Educational Trust
(Minority Institution)

DEPARTMENT OF MATHEMATICS

BRIDGE COURSE REPORT

(2021-2022)

WAVOO WAJEEHA WOMEN'S COLLEGE OF ARTS AND SCIENCE,
KAYALPATNAM-628204
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Department of Mathematics

Syllabus For Bridge Course (2021-2022)

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

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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 ln3/x?
a) 2/x3 b) −3/x3 c) −9/x3 d) 9/x3

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^{x2}.
a) e^{x2} b) 2x c) $2e^{x2}$ d) $2xe^{x2}$

10.Differentiate sin(3x+5)

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

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

a)sec x +C b)-Secx+C c)Cosecx +C d)-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. $\int x\, sinx\, dx$

a)cosx+sinx+c b) sinx+c c)-X Cosx+Sinx+c d) Tanx+c

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

a)tan x+C b)-Cotx+c c)cosecx+C d)sinx+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) 63 c) 27 d) 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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Time Table – Bridge Course (2021-22)

Date	I	II	III	IV	V
08/09/2021	Orientation				
09/09/2021	Eng	Eng	Eng	Algebra	Differentiation
13/09/2021	Eng	Eng	Eng	Integration	Algebra
14/09/2021	Eng	Eng	Eng	Reasoning	Integration
15/09/2021	Eng	Eng	Eng	Reasoning	Differentiation

STAFF DETAILS

S.No	Topics Covered	Staff Handling	Signature
1	UNIT - I - Algebra	Miss.K.Kalaivani	K. Kalai Vani
2	UNIT - II - Differentiation	Mrs.A.Poongothai	
3	UNIT - III - Integration	Mrs.K.Anita Blessie Rani	
4	UNIT - IV - Reasoning	Miss.K.Kalaivani	K. Kalai Vani

HOD i/c

PRINCIPAL