Add on Course

on

BASIC MATHEMATICS FOR COMPETITIVE EXAMINATIONS

Organized by the

Department of Mathematics
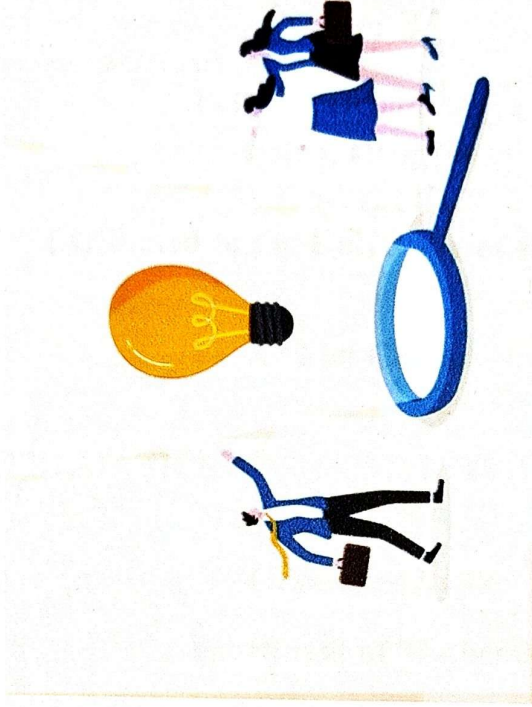
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IQAC

Polba Mahavidyalaya,Polba, Hooghly, Pin-712148

(Affiliated to the University of Burdwan)

23rd May 2023 to 8th June, 2023 (30 Hrs.)

Instructors:

1. Dr. Amrita Das, Assistant Professor, Department of Mathematics, Polba Mahavidyalaya, Polba.
2. Mr. Palash Sadhu, SACT, Department of Mathematics, Polba Mahavidyalaya, Polba.

Chief Patron

Mr. Narugopal Kaibarta

(Teacher-in-Charge)

Polba Mahavidyalaya
Polba, Hooghly
Pin-712148
(Affiliated to the University of Burdwan)

Add on Course

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BASIC MATHEMATICS FOR COMPETITIVE EXAMINATIONS

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Duration: 30 Hours
23rd May 2023 to 8th June, 2023

Chief Patron

Mr. Narugopal Kaibarta
(Teacher-in-Charge)

Eligibility

2nd and 4th semester students of B.Sc. General (ongoing)

Teacher in Charge
Polba Mahavidyalaya
Polba, Hooghly, West Bengal

28/8/24

- *No Course fees/Registration fees: The course is free for interested students*

Rules & Regulations related to the Course

- The assessment process will have a total score of 100. Out of these 10 marks for attendance.
- The process of evaluation will be explained during the class sessions.
- Students must attend all the assessments that have been scheduled to be eligible for certification.
- Every student must have a minimum attendance of 70% throughout the course to receive any certificate.
- The certificate's category will be decided based on the marks obtained, following the subsequent guidelines:

Score on 100	Grade
90-100	A+
80-89	A
70-79	B+
60-69	B
50-59	C
Below 50	Fail

*Certificates will be issued only to those participants who complete the Course successfully by following rules & and regulations.

Course Design

Course	Basic Mathematics for Competitive Examinations
Eligibility	2nd and 4th Sem students of undergraduate level
Faculty	Internal faculty
Course Fee	Nil
Intake Capacity	20
Class Duration	1 Class-1 hr.2hrs / day.
Course Duration	30 hours
Assessment Process	- Attendance - Written test
Students' Feedback	

Amitto Das 11/07/23

Course Objectives

This 30 hour course on Basic Mathematics for Competitive Examinations will:

1) Help students acquire skills in solving quantitative aptitude by simple methods.
2) Help students acquire skills in solving quantitative aptitude in short span of time.
3) Help learning Maths Tricks & Tips for Competitive Exams.
4) Provide tips to improve Maths for Competitive Exams.
5) Enrich their knowledge and to develop their logical reasoning thinking ability.

Course Description

Mathematics is a subject that deals with numbers, shapes, logic, quantity and arrangements. Mathematics teaches to solve problems based on numerical calculations and find the solutions. Learning mathematics will help students to build their logical thinking and problem-solving skills. It has huge applications in day-to-day life. The basic arithmetic operations such as addition, subtraction, multiplication and division are the most important part of our lives. From calculating expenses to determining time schedules or even cooking, basic mathematical knowledge helps us navigate numerous life situations. Yet, many find themselves intimidated by numbers or lost in the maze of operations. Our aim is to ensure that every student walks away with a clear understanding and a renewed confidence in their ability to handle foundational mathematical problems.

Particularly, this course will indulge in the basic mathematics required for the competitive examinations including Banking, Railway, SSC, WBCS, PSC, UPSC, etc. Accordingly, the course is divided into three cycles with three practice tests namely, Practice test I, Practice test II and Practice test III.

Practice test I will follows the questions on Numbers and number system, HCF & LCM, Decimal Fractions, Simplification, Square and Cube roots and Average.

Practice test II will include questions from Problems on Ages, Surds and Indices, Percentage, Profit and Loss, Ratio and Proportion, Partnership, Chain rule, Mensuration, Trigonometry.

Practice III include questions from Time and work, Time and distance, Simple and Compound interest, Data Interpretation/Reasoning.

Overall, the course may prove itself beneficial to all the students who are
- Facing Current Academic Challenges: Battling through a challenging math course
- Transitioning in their Career: Stepping into a job that requires math proficiency
- Simply Curious: Wishing to review, refresh, or extend their mathematical horizons

This course offers tailored content that breaks down complex ideas into digestible modules, backed by practical examples that make learning both engaging and effective.

Course Schedule

Hour	Topic	Teaching Activities
1-4	• Course Introduction • Introduction to Numbers and number system • HCF & LCM	Practice test-I
4-9	• Decimal Fractions • Simplification • Square and Cube roots • Average	
9-12	• Problems on numbers • Problems on Ages • Surds and Indices	Practice test-II
12-17	• Percentage • Profit and Loss	
17-23	• Ratio and Proportion • Partnership • Chain rule • Mensuration • Trigonometry	
23-26	• Time and work • Time and distance • Simple and Compound interest • Miscellaneous	Practice test-III
26-28	• Data Interpretation/Reasoning	
28-30	Assessment (2 hrs. written test)	

Reference Books:
- R. S. Aggarwal, Quantitative Aptitude (Fully solved), Reprint 2016, S. Chand.
- R.V.Praveen, Quantitative Aptitude and Reasoning, 2nd Revised Edition 2013, Prentice-Hall of India Pvt. Ltd.
- G. K. Ranganath, C. S. Sampangiram and Y. Rajaram, A text Book of business Mathematics, 2008, Himalaya Publishing House.

Instructors:
1. Dr. Amrita Das, Assistant Professor, Department of Mathematics, Polba Mahavidyalaya, Polba.
2. Mr. Palash Sadhu, SACT, Department of Mathematics, Polba Mahavidyalaya, Polba.

Course Outcome

This course of basic Mathematics for Competitive Examinations will:

- Provide a platform to the students to expertise the Basic concepts of Mathematics needed for most competitive exams including Banking, Railway, SSC, WBCS, PSC, UPSC, etc.
- Establish a framework to help students acquire the knowledge and expertise necessary to secure employment opportunities in the Government sector.
- Expertise students in solving problems easily by using shortcut methods with time management by analyzing the problems logically and approaching them differently.
- Turn students' mathematical apprehensions into a strength.

To,
The Teacher-in-Charge,
Polba Mahavidyalaya,
Polba, Hooghly,
Pin- 712148.

**Sub: Seeking permission to organize an Add on course on
"BASIC MATHEMATICS FOR COMPETITIVE EXAMINATIONS"**

Respected Sir,

With due respect, I, on behalf of the Department of Mathematics, Polba Mahavidyalaya, would like to request your kind permission to organize a thirty hour Add on course entitled "BASIC MATHEMATICS FOR COMPETITIVE EXAMINATIONS" during the period of 23rd May to 8th June, 2023.

Hope you would be kind enough to provide your administrative and financial permission for the forthcoming Add on course.

Thanks and Regards,

Amrita Das 28/04/2023
Dr. Amrita Das,
Assistant Professor of Mathematics,
Polba Mahavidyalaya,
Hooghly-712148.

Allowed
W karbati
16/5/23

Teacher in Charge
Polba Mahavidyalaya
Polba, Hooghly, West Bengal

POLBA MAHAVIDYALAYA

Post Office - Polba, District – Hooghly, West Bengal, Pin - 712148

AFFILIATED TO THE UNIVERSITY OF BURDWAN

Recognized under Sections 2(f) & 12(B) of the UGC Act. 1956

NAAC Accredited

N o t i c e

All Teaching, Non-Teaching Staff and Students of Polba Mahavidyalaya are hereby informed that the Department of Mathematics in collaboration with IQAC is going to organize an Add-on-Course entitled "Basic Mathematics for Competitive Examinations" from 23rd May 2023 to 8th June 2023 at the College premises.

Interested students are hereby informed to contact the respective teacher to enroll their name in this course immediately.

Coordinator
IQAC

16/5/2023

Teacher-in-Charge

Teacher in Charge
Polba Mahavidyalaya
Polba, Hooghly, West Bengal

List of Students Enrolled in the Add On Course "Basic Mathematics for Competitive Examinations"for the session 2022-23

Sl. No.	Roll No.	Subject	Semester	Name	Signature
1	801	B.Sc(G)	Sem-(ii)	Prantik Dutta	Prantik Dutta
2.	851	B.SC(Cr)	Sem IV	Isha Das	Isha Das
3	852	B.Sc(G)	Sem IV	Keya Das	Keya Das

Amita Das 06/05/2023

HoD, Department of ~~Education~~ Mathematics AD

06/05/2023.

Teacher-in-Charge

Teacher in Charge
Polba Mahavidyalaya
Polba, Hooghly, West Bengal

POLBA MAHAVIDYALAYA
Estd-
2005
Dist.-Hooghly

REGISTER OF ATTEND- ANCE OF PUPILS

FOR THE MONTH

ATTEND-ANCE OF OF 23rd May to 08th June, 2023

Serial No.	Roll No.	NAME OF PUPILS	Sl. No. & dt. of Adm in the Adm. Reg.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		20	21	22	23	24	25	26	27	28	29	30	31	Present	Late Present	Absent on Leave	Absent without Leave	REMARKS
1.	801	PRANTIK DUTTA		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		20	21	22	23	24	25	26	27	28	29	30		30		00		
2.	851	ISHA DAS		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		20	21	22	23	24	25	26	27	28	29	30		30		00		
3.	852	KEYA DAS		1	2	3	4	5	6	7	8	.	.	9	10	11	12	13	14	15	16	A		18	19	20	21	22	23	24	25	26	27	28		28		02		

No. of classes by

1) Dr. Amrita Das → 20

2) Mr. Palash Sadhu → 10

Total → 30

Amrita Das 08/06/23

Palash Sadhu 08/06/23

No. Present daily ... ...

No. Absent daily ... ...

TOTAL ...

Hindus -   Muslims -   + Others -

No. of Free Students -   No. of ½ Free Students -

No. of working days during the Month -
Average Daily Attendance -
Percentage of Attendance during the Month -

POLBA MAHAVIDYALAYA
Polba, Hooghly-712148
Add-on Course (23rd May to 08th June, 2023) Assessment

Total Marks: 50   Time: 1hr.

Each question carries 2.5 Marks
Answer all the questions

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1. If $3x + 7 = x^2+M = 7x+5$, what is the value of 120% of M?
   (a) 8.90
   (b) 9.90
   (c) 9.98
   (d) None of these

2. P is six times as large as q. The percent that q is less then p, is
   (a) $16\frac{2}{3}$
   (b) 60
   (c) $83\frac{1}{3}$
   (d) 90

3. If two numbers are respectively 20% and 50% of a third number, what is the percentage of the first number to the second?
   (a) 10
   (b) 20
   (c) 30
   (d) 40

4. A sum of Rs 4558 is divided among A, B and C such that A receives 20% more than C, and C receives 25% less than B. What is A's share in the amount?
   (a) Rs 1548
   (b) Rs 1720
   (c) Rs 1290
   (d) Rs 1345

5. The digit at unit place of a two-digit number is increased by 100% and the digit at ten places of the same number is increased by 50%. The new number thus formed is 19 more than the original number. What is the original number?
   (a)22
   (b) 63
   (c) 24
   (d) None of these

6. The owner of a boutique decides to calculate the percentage of customers who purchase hats. If 40 per cent of the store's customers decide to purchase items, and of those customers 15 percent purchase hats, then what per cent of the store's customers purchase hats?
   (a) 4%
   (b) 6%
   (c) 15%
   (d) 24%

7. Groundnut oil is now being sold at Rs 27 per kg. During last month its cost was Rs 24 per kg. Find by how much % a family should reduce its consumption, so as to keep the expenditure same.
   (a) $11\frac{1}{9}\%$
   (b) $11\frac{1}{11}\%$
   (c) $11\frac{9}{10}\%$
   (d) $9\frac{1}{10}\%$

8. 10% of the inhabitants of a village having died of cholera, a panic set in, during which 25% of the remaining inhabitants left the village. The population is then reduced to 4050. Find the number of original inhabitants.
   (a) 5000
   (b) 6000
   (c) 7000
   (d) 8000

9. Chunilal invests 65% in machinery, 20% in raw material and still has Rs 1,305 cash with him. Find his total investment.
   (a) Rs 6,500
   (b) Rs 7,225
   (c) Rs 8,500
   (d) None of these

10. When the price of a pressure cooker was increased by 15%, the sale of pressure cookers decreased by 15%. What was the net effect on the sales?
    (a) 15% decrease
    (b) no effect
    (c) 2.25% increase
    (d) 2.25% decrease

11. If 12% of 75% is greater than 5% of a number by 75, the number is
    (a) 1875
    (b) 1890
    (c) 1845
    (d) 1860

12. When the price of sugar was increased by 32%, a family reduced its consumption in such a way that the expenditure on sugar was only10%

Each question carries 2.5 Marks
Answer all the questions

more than before. If 30 kg were consumed per month before, find the new monthly consumption.
(a) 20kg   (b) 25kg
(c) 30 kg   (d) None of these

13. A's income is 60% of B's income, and A's expenditure is 70% of B's expenditure. If A's income is 75% of B's expenditure, find the ratio of A's savings to B's savings.
(a) 5:1   (b) 1:5
(c) 3.5:1   (d) 2:7

14. The ratio of salary of a workers in July to that in June was $2\frac{1}{2} : 2\frac{1}{4}$, by what % the salary of July more than salary of June. Also find by what % salary if June was less than that of July.
(a) $11\frac{1}{9}$% and 10%   (b) 10% and $11\frac{1}{9}$%
(c) Both 10%   (d) Both $11\frac{1}{9}$%

15. In a housing society, 30 per cent of the residents are men over the age of 18 and 40 per cent are women over the age of 18. If there are 24 children living in the housing society, then how many total residents live?
(a) 32   (b) 80
(c) 94   (d) 112

16. There is an increase of 30% in the production of milk chocolates in Amul Dairy in one month. If now it is 9, 100 milk chocolates per month, what was it on month ago?
(a) 10,000 chocolates   (b) 9000 chocolates
(c) 8000 chocolates   (d) 7000 chocolates

17. In a college election between two rivals, by 160 votes, The total number of votes polled was
(a) 900   (b) 800
(c) 700   (d) 600

18. A scooter costs Rs25,000 when it is brand new. At the end of each year, its value is only 80% of what it was at the beginning of the year. What is the value of the scooter at the end of 3 years?
(a) Rs 10,000   (b) Rs 12,500
(c) Rs 12,800   (d) Rs 12,000

19. The income of A is 150% of the income of B and the income of C is 120% of the income of A. If the total income of A, B and C together is Rs 86000, what is C's income?
a candidate who got 40% of the total votes polled, was defeated by his rival
(a) Rs 30000   (b) Rs 32000
(c) Rs 20000   (d) Rs 36000

20. If the price of sugar id increased by 7%, then by how much per cent should a housewife reduce her consumption of sugar, to have no extra expenditure?
(a) 7 over 107%   (b) 107 over100%
(c) 100 over 107%   (d) 7%

$\frac{50}{50}$

Arnab De 08/06/2023

Prantik Dutta
8/6/23

POLBA MAHAVIDYALAYA
Polba, Hooghly-712148
Add-on Course (23rd May to 08th June, 2023) Assessment

Total Marks: 50   Time: 1hr.

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   (a) 10
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(a) 32   (b) 80

(c) 94   (d) 112

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Isha Das
8/6/23

POLBA MAHAVIDYALAYA
Polba, Hooghly-712148
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(a) Rs 30000
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(c) Rs 20000
(d) Rs 36000

20. If the price of sugar id increased by 7%, then by how much per cent should a housewife reduce her consumption of sugar, to have no extra expenditure?
(a) 7 over 107% (b) 107 over100%
(c) 100 over 107% (d) 7%

Keya Ray
08/06/2023

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Certificate of Participation

This is to certify that

Ms. Isha Das, a student of 4th semester, B.Sc. General, has participated in the Add-on Course on **"Basic Mathematics for Competitive Examinations"** organized by the Department of Mathematics and IQAC, Polba Mahavidyalaya, Polba, Hooghly-712148, from **23rd May 2023 to 08th June 2023**, and obtained Grade A+.

Amrita Das.

(Amrita Das)
Course Co-Ordinator & HOD,
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