

BLDE ASSOCIATION'S  
S.B.ARTS AND K.C.P SCIENCE COLLEGE, VIJAYAPUR



DEPARTMENT OF MATHEMATICS

**Department Best Practice 2016**

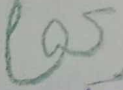
**Even Semester**

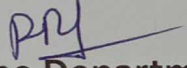
**“Training on attempting competitive exams”  
( for B.Sc final year Students)**


**BLDE ASSOCIATION'S**  
**S.B.ARTS AND K.C.P SCIENCE COLLEGE, VIJAYAPUR**  
**Department of Mathematics**

**NOTICE**

It is informed to the all B. Sc students that the Department of Mathematics is conducting Department Best Practice on attempting competitive exam from January 2016 to April 2016. So, interested students have to take their admission before 11 January 2016. The classes will be conducted every Sunday from 9 am to 12 pm in the Room No 25.

  
**Principal,**  
**S.B.Arts & K.C.P. Science College**  
**BIJAPUR.**

  
**Head of the Department**  
**H. O. D.**  
**Department of Mathematics,**  
**S. b. Arts & K. C. P. Science**  
**College, BIJAPUR,**

  
**IQAC, Co-ordinator**  
**S.B.Arts & K.C.P.Science College,**  
**Vijayapur.**

We are introducing the new course for B.Sc final year students involving training on the topic mentioned in syllabus.

## **COURSE AND CONTENTS**

### **1. Objectives:**

The main objectives is to make students trained in attempting competitive exams like Banking, PDO, SDA, FDA and Police etc

### **2. Scope:**

The students who have interested in this course will get benefit for this course, which will help them in dealing competitive exams.

### **3. Syllabus:**

**Unit-1:** Clock , Calendar, Time and Work

**Unit-2:** Simple interest

**Unit-3:** Coding, Decoding and number series

**Unit-4:** Sitting arrangement

**Unit-5:** Simplifications

**Unit-6:** Data Interpretation

## TOTAL DURATION OF THE COURSE- 30 HOURS

### TIME SCHEDULE

Sl.No	Topics	Hours
1	Unit-1: Clock , Calendar, Time and Work	5
2	Unit-2: Simple interest	5
3	Unit-3: Coding, Decoding and number series	5
4	Unit-4: Sitting arrangement	5
5	Unit-5: Simplifications	5
6	Unit-6: Data Interpretation	5

#### **Evaluation:**

We will conduct test for the students after completion of this course and we will choose highest scorers and also we will give certificate for this course to every student

# STUDENT ATTENDANCE

Name	1	2	3	4	5	6	7	8	9	10	11	12	13
1. Reenuka Masuti	0	1	2	3	4	5	6	6	7	8	9	10	10
2. Abhishek. Metri	0	1	2	3	4	5	6	7	8	9	10	11	11
3. Poushima. Agnihotri	1	2	3	4	5	6	7	7	8	9	10	11	12
4. Aishwarya. Kalamani	1	2	3	4	5	6	7	8	9	10	11	11	12
5. Aishwarya. Patil	1	2	3	3	4	5	6	7	8	9	10	11	11
6. Akshayakumar. Kompa	1	2	3	4	5	6	7	8	9	10	11	12	13
7. Akshay. Wadageri	1	2	3	4	5	6	7	8	9	10	11	11	11
8. Akshata. Galagali	0	1	2	3	4	5	6	7	8	9	10	11	12
9. Ali Adilshah. Nadaf	0	1	2	3	4	5	6	7	8	9	10	11	12
10. Ambaj. Gajakosh	1	2	3	4	5	6	7	8	9	10	11	12	13
11. Amitkumar. Budihal	1	2	3	4	5	6	7	8	9	10	11	12	13
12. Anand. Jirli	1	2	3	4	5	5	6	7	8	9	10	11	11
13. Anand Pawale	1	2	3	4	5	6	7	8	9	10	11	12	13
14. Anil. Biradar	1	2	3	4	5	6	6	7	8	9	10	12	13
15. Anilkumar. Karamuri	1	2	3	4	5	6	7	8	9	10	11	12	13
16. Anita. Menasangri	0	1	2	3	4	5	6	7	8	9	10	11	11
17. Anjali. Rathod	1	2	3	4	5	6	7	8	9	10	11	12	12
18. Anjana. Bidari	1	2	3	4	5	6	7	8	9	10	11	12	12
19. Anjum. Awati	1	2	3	4	5	6	7	8	9	10	10	11	11
20. Ankita. Deshpande	1	2	3	4	5	6	7	8	9	10	11	12	12
21. Anupama. Jangamshetti	1	2	3	4	5	6	7	8	9	10	11	12	12
22. Aswati. Gidaveer	1	2	3	4	5	6	7	8	9	10	11	12	12
23. Aswati. Khavi	1	2	3	4	5	6	7	8	9	10	11	12	13
24. Aruna	1	2	3	4	5	6	7	8	9	10	10	11	12
25. Aruna. Sindagi	1	2	3	4	5	6	7	8	9	10	11	12	13
26. Ashwini. Biradar	1	2	3	4	5	6	7	8	9	10	10	11	12
27. Ashwini. Loni	1	2	3	4	5	6	7	8	9	10	11	12	13
28. Ashwini. Patkar	1	2	3	4	5	6	7	8	9	10	11	12	13
29. Ashwini. Walikar	1	2	3	4	5	6	7	8	9	10	11	12	13

# REGISTER

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14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			

# STUDENT ATTENDANCE

Name	1	2	3	4	5	6	7	8	9	10	11	12	13
Basavraj. Mulage													
31. Bhagyashree. Akkalkoti	0	1	2	3	4	5	6	7	8	9	9	10	11
32. Bhagyashree. Biradar	1	2	3	4	5	6	7	8	9	10	11	12	13
33. Bhagyashree. Chakki	1	2	3	4	5	6	7	8	9	10	11	12	13
34. Bhagyashree. Hajeri	0	1	2	3	4	5	6	7	8	9	10	10	11
35. Bhagyashree. Kasraha	1	2	3	4	5	6	7	8	9	10	11	12	13
36. Bhagyashree. Mali	1	2	3	4	5	6	7	8	9	10	11	12	13
37. Bhagyashree. Gavimath	0	1	2	3	4	5	6	7	8	9	10	10	11
38. Bhakti. Kulkarni	1	2	3	4	5	6	7	8	9	10	11	12	13
39. Bharati. Bidaveer	1	2	3	4	4	5	6	7	8	9	10	11	12
40. Bhuvaneshwari. Patil	1	2	3	4	5	6	7	8	9	10	11	12	13
41. Bindu. Patil	1	2	3	4	5	6	7	8	9	10	11	12	13
42. Chandrakant. Khatnalli	1	2	3	4	5	6	7	8	9	10	11	12	13
43. Chidanand. Hignemath	1	2	3	4	5	6	7	8	9	10	11	12	13
44. Chidanandayya. Pujari	1	2	3	4	5	6	7	8	9	10	11	12	13
45. Chirna. Bidari	1	2	3	4	5	6	7	8	9	10	11	11	12
46. Danamma. Hignemath	1	2	3	4	5	6	7	8	9	10	11	12	12
47. Deepa. Patil	1	2	3	4	5	6	7	8	8	9	10	11	11
48. Deepa. Patil	1	2	3	4	5	6	7	8	9	10	11	11	12
49. Deepthi. Inamdar	1	2	3	4	5	6	7	8	9	10	11	12	13
50. Devaki. Pujari	0	1	2	3	4	5	6	7	8	9	10	11	12
51. Dhanamma. Medidat	1	2	3	4	5	6	7	8	9	10	11	12	12
52. DivyaBharati. Chirogi	1	2	3	4	5	6	7	8	9	10	11	12	13
53. DivyaBharati. Khandare	1	2	3	4	5	6	7	8	9	10	11	12	13
54. Erangabhai. Hosamani	1	2	3	4	5	6	7	8	9	10	11	12	13
55. Erangambika	1	2	3	4	5	6	7	8	9	10	11	12	13
56. Erayatri. Patil	0	1	2	3	4	5	6	7	8	9	10	11	12
57. Eeeta. Hadagal	0	1	2	3	4	5	6	7	8	9	10	11	12
58. Gollalappa. Angadi	1	2	3	4	5	6	7	8	9	10	10	11	12

# REGISTER

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## TIME-TABLE 2015-16

Date	Duration	Name of the Faculty
24/01/16	9am to 12pm	D.O. L.R. Sindagi
31/01/16	9am to 12pm	S.V. Thombare
07/02/16	9am to 12pm	S.V. Thombare
14/02/16	9am to 12pm	D.O. L.R. Sindagi
21/02/16	9am to 12pm	D.O. L.R. Sindagi
28/02/16	9am to 12pm	S.V. Thombare
06/03/16	9am to 12pm	P.H. Nimbalkar
13/03/16	9am to 12pm	P.H. Nimbalkar
20/03/16	9am to 12pm	P.H. Nimbalkar
27/03/16	9am to 12pm	P.D. Chavan
03/04/16	9am to 12pm	P.D. Chavan
10/04/16	9am to 12pm	P.D. Chavan

B.Sc Final semester

Paper: Quantitative Aptitude and Reasoning

Time: 1 1/2 hour

Max. Marks: 50

Mark (✓) against the correct answer in each of the following: [Any 25]

25 x 2 = 50

1. A clock is started at noon. By 10 minutes past 5, the hour hand has turned through:
  - a)  $145^\circ$
  - b)  $150^\circ$
  - c)  $155^\circ$
  - d)  $160^\circ$
2. How many times do the hands of a clock coincide in a day?
  - a) 20
  - b) 21
  - c) 22
  - d) 24
3. January 1, 2007 was Monday. What day of the week lies on Jan 1, 2008?
  - a) Monday
  - b) Tuesday
  - c) Wednesday
  - d) Sunday
4. On 8<sup>th</sup> Dec, 2007 Saturday falls. What day of the week was it on 8<sup>th</sup> Dec. 2006?
  - a) Sunday
  - b) Thursday
  - c) Tuesday
  - d) Friday
5. A can finish a work in 18 days and B can do the same work in half the time taken by A. then, working together, what part of the same work they can finish in a day?
  - a)  $\frac{1}{6}$
  - b)  $\frac{1}{9}$
  - c)  $\frac{2}{5}$
  - d)  $\frac{2}{7}$
6. A takes twice as much time as B or thrice as much time to finish a piece of work. Working together, they can finish the work in 2 days. B can do the work alone in:
  - a) 4 days
  - b) 6 days
  - c) 8 days
  - d) 12 days
7. A and B can do a work in 8 days, B and C can do the same work in 12 days. A, B and C together can finish it in 6 days. A and C together will do it in :
  - a) 4 days
  - b) 6 days
  - c) 8 days
  - d) 12 days
8. A is twice as good workman as B and together they finish a piece of work in 14 days. The number of days taken by A alone to finish the work is :
  - a) 11
  - b) 21
  - c) 28
  - d) 42
9. Sakshi can do a piece of work in 20 days . Tanya is 25% more efficient than Sakshi. The number of days taken by Tanya to do the same piece of work is :
  - a) 15
  - b) 16
  - c) 18
  - d) 25
10. The simple interest on Rs. 1820 from March 9, 2003 to May 21, 2003 at  $7\frac{1}{2}\%$  rate will be :
  - a) Rs. 22.50
  - b) Rs. 27.30
  - c) Rs. 28.80
  - d) Rs. 29
11. How much time will it take for an amount of Rs. 450 to yield Rs. 81 as interest at 4.5% per annum of simple interest ?
  - a) 3.5 yrs
  - b) 4 yrs
  - c) 4.5 yrs
  - d) 5 yrs
12. A sum of Rs. 12,500 amounts to Rs. 15,500 in 4 yrs at the rate of simple interest . What is the rate of interest ?
  - a) 3%
  - b) 4%
  - c) 5%
  - d) 6%
13. A certain amount earns simple interest of Rs. 1750 after 7 yrs. Had the interest been 2% more, how much more interest would it have earned ?
  - a) Rs. 35
  - b) Rs. 245
  - c) Rs. 350
  - d) cannot be determined
14. What will be the ratio of simple interest earned by certain amount at the same rate of interest for 6 yrs and that for 9 yrs
  - a) 1:3
  - b) 1:4
  - c) 2:3
  - d) none of these
15. If in a certain code , LUTE is written as MUTE and FATE is written as GATE, then how will BLUE be written in the code :
  - a) CLUE
  - b) GLUE
  - c) FLUE
  - d) SLUE
16. If in a certain language , MADRAS is coded as NBESBT , how is BOMBAY coded in that language ?
  - a) CPNCBX
  - b) CPNCBZ
  - c) CPOCBZ
  - d) CQOCBZ
17. If in a certain code , BAT = 23 and CAT = 24 , then how will you code BALL?
  - a) 27
  - b) 28
  - c) 32
  - d) 120

18. If  $AT = 20$ ,  $BAT = 40$ , then  $CAT$  will be equal to

- a) 30      b) 50      c) 60      d) 70

Study the following information carefully and answer the given questions,

P, Q, R, S, T, V, W and Y are sitting around a circular table facing the centre.

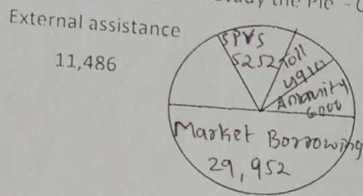
- a) P sitting second to left of T.  
 b) Only two people sit between T and W  
 c) Q sits third to the left of W.  
 d) V and Y are immediate neighbours of each other.  
 e) only one person sits between Y and R.
19. What is the position of R with respect to P ?  
 a) Third to the left    b) Immediately to the right    c) Second to the left    d) Third to the right

20. If all the person are made to sit in alphabetical order in clockwise direction, starting from P, the positions of of how many (excluding P) will remain unchanged as compared to their original seating position?

- a) One      b) Two      c) Three      d) Four
21. Who sits between Y and R ?  
 a) W      b) Q      c) T      d) P

22. How many person sit between S and V when counted in clockwise direction from S ?  
 a) One      b) Two      c) Three      d) Four

The following Pie - Chart show the sources of funds to be collected by the National highways authority of India for its phase II projects. Study the Pie - Chart and answer the question that follow.



total funds to be arranged for Projects (Phase II) = RS. 57,600 crs.

23. Near about 20% of the funds are to be arranged through :  
 a) SPVS      b) External assistance      c) Annuity      d) Market Borrowing
24. The central angle corresponding to market Borrowing is :  
 a)  $52^\circ$       b) 137.8%      c)  $187.2^\circ$       d)  $192.4^\circ$
25. The approximate ratio of the funds to be arranged through Toll and that through Market Borrowing is :  
 a) 2:9      b) 1:6      c) 3:11      d) 2:5

26. If NHA could receive a total of Rs. 9695 crs as External Assistance, by what percent should it increase the Market Borrowings to arrange for the shortage of funds ?  
 a) 4.5%      b) 7.5%      c) 6%      d) 8%

27. If the Toll is to be collected through an outsourced agency by allowing a maximum 10% commission, how much amount should be permitted to be collected by the outsourced agency, so that the project is supported with Rs. 4910 crs ?

- a) Rs. 6213 crs      b) Rs. 5827 crs      c) Rs. 5401 crs      d) Rs. 5216 crs

28. 1, 6, 15, ?, 45, 66, 91

- a) 25      b) 26      c) 27      d) 28

29. 2, 5, 9, 19, 37, ?

- a) 73      b) 75      c) 76      d) 78

30) AZY, BUT, CXW, DWV, ?

- a) EVA      b) EVU      c) VEU      d) VUE

TOTAL MARKS = 50

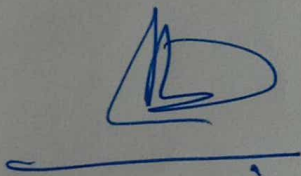
SL NO	NAME OF THE STUDENT	MARKS
1	RENUKA . MASUTI	49
2	ABHISHEK. METRI	45
3	AISHWARYA . KALAMANI	46
4	AISHWARYA . PATIL	43
5	AKSHATA . WADAGERI	50
6	AKSHATA . GALAGALI	50
7	ANAND . JIRLI	45
8	ANAND . PAWALE	50
9	ANJALI . RATHOD	50
10	ANJANA . BIDARI	49
11	ARATI . GIDAVEER	50
12	ARATI . KHAVI	49
13	ARUN . SINDAGI	47
14	ASHWINI . LONI	50
15	ASHWINI . BIRADAR	49
16	ASHWINI . PATTAR	50
17	BASAVARAJ . MULAGE	48
18	BHAGYASHREE . AKKALKOTI	47
19	BHAGYASHREE . BIRADAR	49
20	BHAGYASHREE . CHAKKI	49
21	BHAGYASHREE . HAJERI	49
22	BHAGYASHREE . MALI	45
23	BHAGYASHREE . GAVIMATH	50
24	BHARATI . KULKARNI	49
25	BHARATI . GIDAVEER	50
26	BHUVANESHWARI . PATIL	50
27	CHIDANAND . HIREMATH	50
28	CHIDANANDAYYA . PUJARI	49
29	CHINNA . BIDARI	49
30	DANAMMA . HIREMATH	49
31	DEEPA . PATIL	46
32	DEEPA . INAMDAR	47
33	GANGABHAI . HADAGAL	50
34	GOLLALAPPA . ANGADI	49
35	GURUNATH . KANNOLLI	47
36	HUCHHAMMA . HUGAR	47
37	IRANNA . SOLAPUR	50
38	JYOTI . PATIL	49
39	JYOTI . PATTAR	50
40	JYOTI . SARASHETTI	49
41	MANJUNATH . KITTAD	50
42	LAXMI . BELUNDAGI	48
43	LAXMI . TELI	48
44	MADHUMATI . TELAGI	46
45	MANJUNATH . ASAMGI	49
46	NAGAMMA . HOSAMANI	48
47	NAHESH . KORI	50
48	NEELAMMA . BIRADAR	50

49	PARVATI . NIMBRAGI	
50	POOJA . PAWAR	50
51	POOJA . HALLI	49
52	POOJA . KALE	47
53	POOJA . MIRAJKAR	47
54	POOJA . ZALAKI	49
55	PRIYANKA . PATIL	48
56	RAHUL . UTAGI	49
57	RAJU . PAWAR	50
58	RASHMI . KULAKARNI	50
59	RATNA . KULKARNI	50
60	REKHA . BIRADAR	50
61	RENUKA . UDAGI	49
62	ROHINI . HUNDEKAR	49
63	SANGAMESH . KEMBHAVI	46
64	SANTOSH . JIRALI	47
65	SAPNA . AYATAWAD	50
66	SARASWATI . KONDI	49
67	SAVITA . KOPPADA	47
68	SAVITA . SANGONDA	47
69	SAVITRI . BIRADAR	50
70	SHAGUPTA . MULLA	49
71	SHARADA . BILLUR	50
72	SHARADHA . HIEMATH	50
73	SHILPA . ATHANI	49
		46

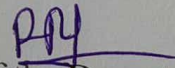
**B.L.D.E.ASSOCIATION'S**  
**S.B.ARTS AND K.C.P. SCIENCE COLLEGE, VIJAYAPUR**  
**DEPARTMENT OF MATHEMATICS**

**REPORT**

The Department of Mathematics conducted Department Best Practice on Attempting Competitive exam which training program was very helpful to students and all the students got to know about how to attempt Mathematics problems in competitive exam.

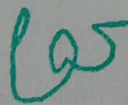


**IQAC, Co-ordinator**  
S.B.Arts & K.C.P.Science College,  
Vijayapur.



Head of the Department.

H. O. D:  
Department of Mathematics,  
S. b. Arts & K. C. P. Science  
College, BIJAPUR.



Principal,  
S.B. Arts and KCP Science College  
VIJAYAPUR