

ADIKAVI NANNAYA UNIVERSITY: RAJMAHENDRAVARAM Skill Course Syllabus (w.e.f:2023-24A.B)

Single Major SKILL COURSE (w.e.f. AY 2023-24) SEMESTER-I ANALYTICAL SKILLS

Theory Credits: 2 2 hrs/week

Course Objective: Intended to inculcate quantitative analytical skills and reasoning as an inherent ability in students.

Course Outcomes:

After successful completion of this course, the student will be able to;

- Understand the basic concepts of arithmetic ability, quantitative ability, logical reasoning, business computations and data interpretation and obtain the associatedskills.
- 2. Acquire competency in the use of verbal reasoning.
- 3. Apply the skills and competencies acquired in the related areas
- 4. Solve problems pertaining to quantitative ability, logical reasoning and verbal ability inside and outside the campus.

UNIT - 1:

Arithmetic ability: Algebraic operations BODMAS, Fractions, Divisibility rules, LCM & GCD (HCF).

Verbal Reasoning: Number Series, Coding & Decoding, Blood relationship, Clocks, Calendars.

UNIT - 2:

Quantitative aptitude: Averages, Ratio and proportion, Problems on ages, Time-distance – speed.

Business computations: Percentages, Profit & loss, Partnership, simple compound interest.

UNIT - 3:

Data Interpretation: Tabulation, Bar Graphs, Pie Charts, line Graphs. Venn diagrams.

Recommended Co-Curricular Activities

Surprise tests / Viva-Voice / Problem solving/Group discussion.

Text Book:

Quantitative Aptitude for Competitive Examination by R.S. Agrawal, S.Chand Publications.

Reference Books

- 1. Analytical skills by Showick Thorpe, published by S Chand And Company Limited, Ramnagar, New Delhi-110055
- 2. Quantitative Aptitude and Reasoning by R V Praveen, PHI publishers.
- 3. Quantitative Aptitude for Competitive Examination by Abhijit Guha, Tata Mc Graw HillPublications.



(a)Nephew

(b)Brother

ADIKAVI NANNAYA UNIVERSITY: RAJMAHENDRAVARAM Skill Course Syllabus (w.e.f:2023-24A.B)

MODEL QUESTION PAPER

Semester – I

SKILL COURSE (w.e.f. AY 2023-24) ANALYTICAL SKILLS

		7 11 17				
Time:						50 Mark
1.	1800÷[10 {(12-6)					
	(a)1	(b)2	(c) 10	(d) 2	20	
	16 [8-{5-2 (2-1+	-1)}]=?				
	(a)110 What is the value of	(b)112	(c)114	(d) 1	116	
3.	What is the value of	of $p+(p-q)+q+(q-p)$	o) ?			
	() []	(b)p	-q	(c) p	(d)q	
4.	$\frac{4}{7} \times \frac{2}{3} \times ? = 1008$					
	7 3					
	(a)2646		246	(c)1616	(d)6264	
5	$17\frac{1}{3} + 21\frac{1}{2} = 33\frac{1}{3}$	$e^{0/2}$ of ?				
3.	3 2 2 3	70 Oj :				
	(a)116.5	(b)81.5	(c)277.	5 (d) 1	104.5	
6	1 1	, ,	. ,	` ,		
0.	$1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{2}}} = ?$					
	$\frac{1+\frac{1}{1+\frac{1}{1+\cdots}}}{1+\frac{1}{1+\cdots}}$					
	$\frac{1+2}{2}$					
	(a)1	` /	(c) 8/5	(d)1	0	
7.	Which of the follo	~ .		_		
	(a) $\frac{3}{4}, \frac{2}{3}, \frac{4}{5}, \frac{5}{6}$	(b) $\frac{2}{x} = \frac{3}{x} = \frac{4}{x}$	$\frac{5}{2}$ (c) $\frac{5}{2}$	$\frac{4}{3} = \frac{3}{3}$ (d)	$\frac{2}{2} \frac{3}{2} \frac{5}{2} \frac{4}{4}$	
		5 . 5	0	·	3'4'6'5	
8.	What is the value of	_				
0	(a)1	(b)2	(c)3	(d)0		
9.	In 30 minutes how				,4, 6,8,10, & 12 seco	onds respectively.
	(a)4	(b)16	(c) 10	(d)	15	
10.	Find the lowest co	` '		` ′	13	
	(a)120	(b)240	(c)360	(d)4	80	
11.	Find the next num	ber in the series.	. ,	. ,		
	20 10 1	0 15 30	75 ?			
	(a)150	(b)210	(c)220	(d) 2	225	
12.	720 120 24 6		()1.5	(1)2		
13	(a)0.5	(b)1	(c)1.5	(d)2 DMG as ' PMG	OCRETU', then how	v ic 'DECIDHED
13.	written in that code	0 0	TER ISC	ucu as 1 m	JCKETO, then not	w is DECITIEN
	(a)ICEDREHP		ED (c)EDIO	CHORE (d)R	EHPDECI	
					; then how will you	code for DELHI.
	(a)45398	(b)43598	(c)9835		5389	
15.	If A is the brother	of B; B is the siste			D, then how is D rel	lated A?
	(a)Brother	(b)Nephew	(c) Nie	` '	can't say	
16.		a girl says' He is	the son of t	he only Daug	thter of the father of	my maternal
	uncle?					

(c) uncle

(d) son-in-law



ADIKAVI NANNAYA UNIVERSITY: RAJMAHENDRAVARAM Skill Course Syllabus (w.e.f:2023-24A.B)

17.	Find the day of the wee	ek Dec 28, 1998?	•		
	(a)Sunday	(b)Monday	(c) Tuesday	(d) wednes	sday
18.	If today is Sunday then	after 86 days w	hat day will beco	ome?	
	(a)Sunday		(c) Tuesday		
19.	Find the angle between				0?
	$(a)70^0$		()	(d) 100^0	
20.	How many times are th				
21	(a)22	(b)24	(c) 44	(d)11	41 . 1. 1 . 4 . 0
21.		isecutive odd nu	mbers is 61. Wi	iat is the diff	erence between the highest &
	lowest numbers?	(1.)0	()14	(1)10	
22	(a)12 The Average weight of	(b)8	` /	(d)10	f A & B is 40 kg & that of B
22.	&C is 43 kg, then the v		kg. II the Avera	ige weight of	A & B is 40 kg & that of B
			(c)26 kg	(d) 31 kg
23.	Find the fourth proport	ional of 4, 6, 8.	?	(u) 31 kg
	(a)17kg Find the fourth proport (a)10	(b)12	(c)14	(d) 16	
	() -	()	()	` /	nere is 30/- in all, how many 5p
	coins are there?		•		
	(a)50	(b)100	(c)150	(d)200	
25.	If $A : B = 2:3$; B:C 5:8 t	then find A: B: C		` ,	
	(a)10:15:24	(b)8:5:12	(c)2:3:8	(d) 6:5:4	
26.	The sum of ages of 5 cl	hildren born at tl	ne interval of 3	years each is	50 years. What is the age of
	the youngest child?				
	(a)4 years		(c) 12 years		
27.	· · · · · · · · · · · · · · · · · · ·	an B, who is twic	ce as old as C. If	the total of	the ages of A,B,& C is 27, then
	how old is B?				
20	(a)7	(b)8	(c)9	(d)10	
28.	-	•		-	ney at the rate of 21 kmph and
	second half at the rate of	•	•	•	_
29	(a)220km A runner can complete		(c) 224 km	(d) 234 km	be able to beat another runner
۷).	who runs at 16.5 kmph		two and nan im	naces, will in	to the deat another runner
	(a)yes	(b)No	(c) can't say	(d) Never	heat
30.	, , ,	` '	` '	` '	e same work in 30 days. If Both
	A & B working togethe		-	-	•
	(a)15 days	(b)12 days	(c) 10 days	(d) 18 day	*
31.	Ram salary is 50,000/	· /		• •	
	(a)55,000	(b) 57,500	(c) 60,	000 (d) 56, 500
32.	By how much is 80% o	of 40 greater than	4/5 of 25?		
	(a)10	(b)15	(c) 20	(d))12
33.	* *		it at a loss of 15		the selling price of the cycle?
	(a)1090	(b)1190	(c)129	\)990
34.	100 oranges are bought		0/- and sold at t	he rate of 48	/- pen dozen then find
	percentage of profit or				
25	(a)15%loss	(b)15% gain	` '	2/7% gain	(d) 14 2/7% loss
<i>5</i> 3.		_			- more than B and B invest
	5000/- more than C. Ou	•			(4) 14, 700
	(a)8400	(b)11,9	7 00	(c) 13, 600	(d) 14, 700

ADIKAVI NANNAYA UNIVERSITY: RAJMAHENDRAVARAM Skill Course Syllabus (w.e.f:2023-24A.B)

36. A starts business with Rs. 3500 and after 5 me profit is divided in the ratio 2:3. What is B's of	-	-
(a)7500 (b)8000	(c)8500	(d)9000
37. A sum of Rs. 25000 will become Rs. 31000 in	· /	
rate of interest per annum?		-
(a)6% (b)10%	(c) 12%	(d) 20%
38. A sum of money at simple interest amounts t	to 815/- in 3 ye	ars and amounts to 854 in 4 years then
find sum?		
(a)650 (b)698	(c)690	(d)700
39. Find the compound interest (CI) on Rs. 12600	•	
(a)14646 (b)2646	(c)15246	(d) 3636
40. The difference in simple interest and compour 10% p.a. is 50/- then find sum?	nd interest on a	a certain sum of money in 2 years at
(a)10,000 (b)5000	(c)6000	(d)2000/-
(41-43): The following venn diagram shows game	es played by th	e number of students in a class
Cricket	16 11 5 14 Foot to	
41. How many students like only cricket and only (a)7 (b)14	y football. (c) 21	(d)28
42. How many students like all the three games.		
(a)4 (b)16	(c)11	(d)5
43. How many students like only one game.		
(a)8 (b)14	(c)7	(d) 29
44. Which of the following diagrams indicates the	ne best relation	
(a) (b)		(c) (d)
45. Which of the following diagrams indicates the	e best relations	between women, mothers and
Engineer?		
(a) (b)	(c)	
(46-50): The lole gives the perco	narks obtai	y seven students in six different
subjects in an examination. Study the table and answe	er the questions	based on it. The numbers in the

brackets give the maximum marks in each subject.



ADIKAVI NANNAYA UNIVERSITY: RAJMAHENDRAVARAM Skill Course Syllabus (w.e.f:2023-24A.B)

Subjects (max.marks)	Maths (150)	Chemistry (130)	Physics (120)	Geography (100)	History (60)	Computer science (40)
Ayush	90	50	90	60	70	80
Aman	100	80	80	40	80	70
Sajal	90	60	70	70	90	70
Rohit	80	65	80	80	60	60
Muskan	80	65	85	95	50	90
Tanvi	70	75	65	85	40	60
Tarun	65	35	50	77	80	80

Rohit	8	30	6	5	80)	80		60	60	
Muskan	8	30	6	5	85	i	95		50	90	
Tanvi	70 65		75		65		85		40	60	
Tarun			3	5	50)	77		80	80	
47. What (a)52.	9 is the ov 5%	(b)419 verall pe (b)559 verage 1) rcentage %	(c) 42 of Taru (c)609	9 in? %	(d) 44 (d)64.	9 5%	V	es? (rounded	off to two	
(a)77	.26	(b)89.	14	(c)91.	37	(d)96.	11				
49. The nu	mber of	student	s who o	btained	60% and	dabove	marks ir	all the	subjects is:		
(a)1 (b)2						(d)No	(d)None				
50. In which	ch subje	ct is the	overall	percent	age the b	est?					
(a)His	tory	(b) Ma	aths	(c) Ph	ysics	(d) Ch	nemistry				
11.d	12.b	13.a		15.d	16.b	17.b	18.c	9.b 19.d	10.c 20.c		
21.b	22.d	23.b	24.c	25.a	26.a	27.d	28.c	29.a	30.b		

Key									
1. c	2.b	3.a	4.a	5.a	6.c	7.b	8.b	9.b	10.c
11.d	12.b	13.a	14.d	15.d	16.b	17.b	18.c	19.d	20.c
21.b	22.d	23.b	24.c	25.a	26.a	27.d	28.c	29.a	30.b
31.b	32.d	33.b	34.c	35.d	36.d	37.a	38.b	39.b	40.b
41.c	42.d	43.d	44.c	45.a	46.d	47.c	48.b	49.b	50.b