

SEMESTER	I	QP CODE	23SEC12
 P.R. GOVERNMENT COLLEGE (AUTONOMOUS), KAKINADA SEM I END EXAMINATIONS JANUARY-2024			
DATE & SESSION	08.01.2024 AN	REG NO	232810TH 21
I BA/B.COM/BBA/B.SC. SUBJECT: <u>ANALYTICAL SKILLS</u>			MAX MARKS 50

SECTION-A

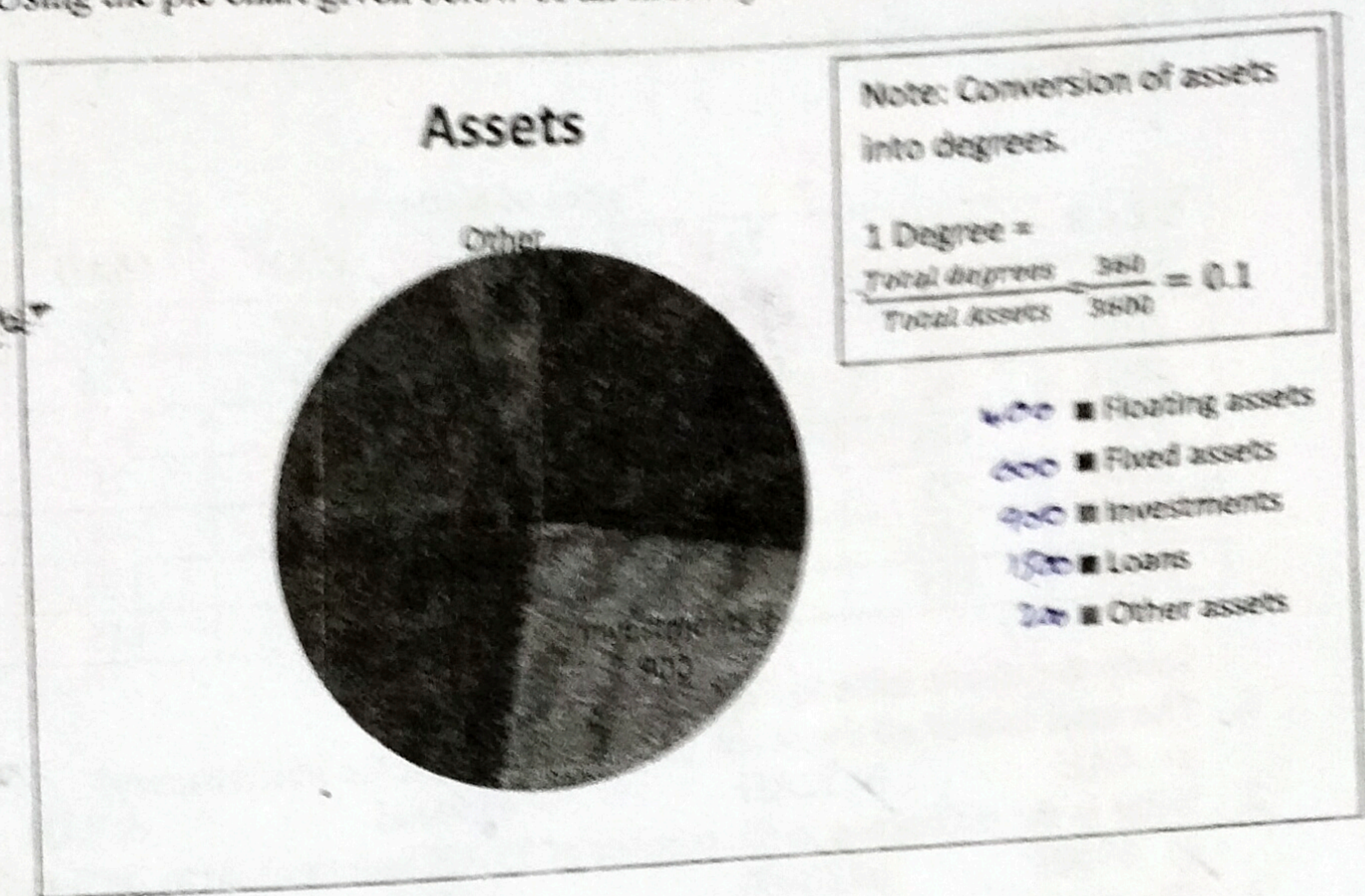
30 x 1M=30 M

Answer ALL questions. Each question carries 1 mark.

- $25 - [18 - \{25 + 3(10 - 7 - 5)\}] = ?$
 a) 86 b) 68 c) 52 ☒ d) None of these
- Which of the following fraction is the smallest?
 a) $13/16$ ☒ b) $15/19$ c) $17/21$ d) $7/8$
- Find the least value of * for which $7*5462$ is divisible by 9?
 a) 5 b) 7 ☒ c) 3 d) 9
- The LCM of $1/3, 5/6, 2/9, 4/27$ is
 a) $1/54$ b) $10/27$ ☒ c) $20/3$ d) $27/3$
- Find the wrong term in the series 3, 8, 15, 24, 34, 48, 63.
 a) 15 b) 16 ☒ c) 34 d) 63
- A and B are young ones of C. If C is the father of A but B is not the son of C.
 How are B and C related
 a) Niece and Uncle ☒ b) Daughter and Father c) Niece and Father
 d) Daughter and Mother
- In certain code 'TIGER' is written as 'QDFHS'. How is 'FISH' written in that code?
 a) GERH ☒ b) GRHE c) GREH d) GHRE
- How many times in a day the hands of a clock are straight?
☒ a) 22 b) 24 c) 44 d) 48
- Mahatma Gandhi was born on 2nd October, 1869. What was the week day on that day?
☒ a) Saturday b) Wednesday c) Thursday d) Friday

10. Mumbai : Maharashtra :: Trivendram : ?
 a) Kolkata b) Gujarat ☒ c) Kerala d) Sikkim
11. What will be the average of numbers from 1 to 51.
 a) 25 ☒ b) 26 c) 27 d) 28
12. The mean proportional between 234 and 104 is
 a) 128 b) 139 c) 145 ☒ d) 156
13. If $a:b = 7:5$, $b:c = 9:11$, find $a:b:c$?
 a) 63:14:55 ☒ b) 63:45:55 c) 14:14:15 d) 7:14:15
14. Rajeev's age after 15 years will be 5 times his age 5 years back.
 What is the present age of Rajeev?
☒ a) 10 years b) 12 years c) 16 years d) 8 years
15. A person travels from P to Q at speed of 40 km/h and returns to Q by increasing his speed by 150%. What is his average speed for both the trips ?
 a) 36 km/h b) 45 km/h ☒ c) 48 km/h d) 50 km/h
16. One-fourth of two-fifth of 30% of a number is 15. What is 20% of that number ?
☒ a) 100 b) 50 c) 200 d) 75
17. If 75% of the students in a school are boys and the number of girls is 420, the number of boys is?
 a) 1176 b) 1350 ☒ c) 1260 d) 1125
18. The cost price of a radio is Rs.1500 and it was sold for Rs.1230. Find the Loss%.
☒ a) 18% b) 9% c) 15% d) 6%
19. A, B and C invested their capitals in the ratio of 5 : 6 : 8. At the end of the business, they received the profits in the ratio of 5 : 3 : 1. Find the ratio of time for which they contributed their capitals.
 a) 12 : 9 : 7 b) 25 : 18 : 8 c) 5 : 6 : 8 ☒ d) 8 : 4 : 1
20. The simple interest accrued on an amount at the end of 5 yr at 12.5% is Rs.1575. What is the principle amount ?
 a) Rs.2050 b) Rs.2550 c) Rs.2250 ☒ d) Rs.2520

21. Using the pie chart given below of an industry with total assets Rs.3600 crores.



(1) What should be the angle represented by Loans sector.

- a) 150° b) 90° c) 60° d) 40°

(2) What should be the angle represented by Investments sector.

- a) 150° b) 90° c) 60° d) 40°

(3) What should be the angle represented by Fixed assets sector.

- a) 150° b) 90° c) 60° d) 40°

(4) What should be the angle represented by Floating assets sector.

- a) 150° b) 90° c) 40° d) 60°

(5) What should be the angle represented by Investments sector.

- a) 90° b) 20° c) 60° d) 40°

22. The following table gives the sales of batteries manufactured by a company over the year (in 000's)

YEAR	Types of Batteries					TOTAL
	4AH	7AH	32AH	35AH	55AH	
2002	75	144	114	102	108	543
2003	90	126	102	84	126	528
2004	96	114	75	105	135	525
2005	105	90	150	90	75	510
2006	90	75	135	75	90	465
2007	105	60	165	45	120	495
2008	115	85	160	100	145	605

Study the above table to find

- The total sale of all the seven years is maximum for which battery?
a) 4AH b) 32AH c) 55AH d) 7AH
- What is the difference in the number of 35 AH batteries sold in 2003 and 2007?
a) 39000 b) 38000 c) 32000 d) 34000
- The percentage of 4 AH batteries sold in the year 2005?
a) 21.02% b) 20.58% c) 19.35% d) 13.81%
- In the case of which battery there was a continuous decrease in sales from 2002 to 2007?
a) 4 AH b) 32AH c) 7AH d) 35AH
- The percentage of 7AH batteries sold in the year 2007?
a) 12.12% b) 17.05% c) 21.21% d) 19.01%

SECTION-B

Answer any **FOUR** questions. Each question carries 5 marks.

4 x 5M=20 M

- Explain the divisibility rules.
- Find three numbers in Arithmetic Progression (A.P) whose sum is 9 and the product is -165.
- Explain Simple interest and Compound interest.
- Four milkmen rented a pasture. 'A' grazed 24 cows for 3 months, 'B' 10 cows for 5 months, 'C' 35 cows for 4 months and 'D' 21 cows for 3 months. If A's Share of rent is Rs.720, find the total rent of the field.
- What are the different methods of presenting Numerical data.
- What is meant by set. Also explain about Venn diagram.