MODEL QUESTION PAPER
B.A / B.Sc (CBCS) Degree Examination
Fourth Semester
Analytical skills

Time: One and half hour   Maximum: 50marks

Part – A - (4x5= 20marks)
Answer any Four from the following eight questions.

1. 3,128,183,213,228,235.5,?

3. Sum of ram, shyam and vijay present age is 72 years. Sum Ram and Shyam age is 42.years.Find the present age of Vijay?

4. A train 240 meter in length crosses a telegraph post in 16 seconds. Find the speed of the train.

5. What would be the compound interest accrued on a amount of Rs.8,000.at the rate of 15% per annum in 3 years?

6. A book was sold for Rs.27.50 with a profit of 10%.If where sold for Rs.25.75, then what would have been the percentage of profit or loss?

7. Find the angle between the hour hand and the minute hand of a clock when the time is 3.25.

8. 370 candidates appeared for an examination of which 352 passed. Find the failure percentage.

SECTION-B- (3x10=30 marks)
Answer all the following questions(one from each unit)
UNIT-1

9(a) (i)Find the HCF of $2^2 x3^3 x5^5 , 2^3 x3^2 x5^2 x7,$ and $2^4 x3^4 x5x7^2 x11$

(ii)Three numbers are in the ratio 1:2:3 and their H.C.F.is 12 .then find the numbers

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<center>(OR)</center>

(b)Write about any four divisibility rules. Given examples
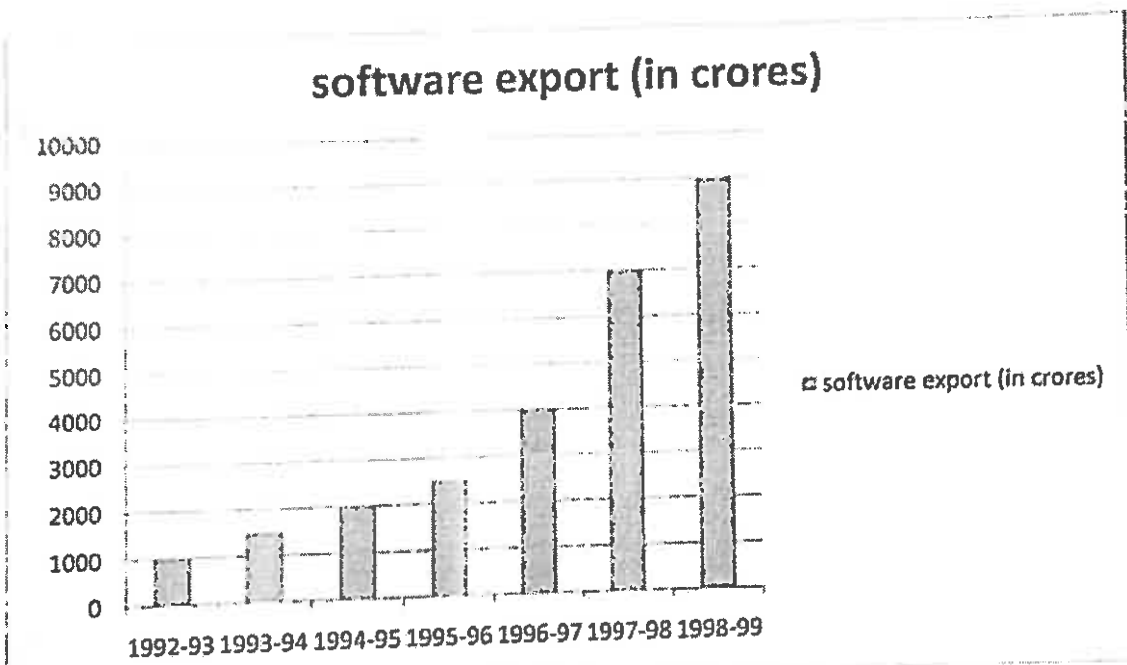
<center>UNIT-2</center>

10 (a) Find the compound interest on Rs 10,000 /- in two years at 4% per annum the interest being component half –yearly.

<center>(OR)</center>

(b) A,B and C invested Rs.6,300;Rs.4,200 and Rs.10,500 respectively in a partnership business. Find the share of "A" in the profit of Rs.12,000 after a year.

<center>UNIT-3</center>

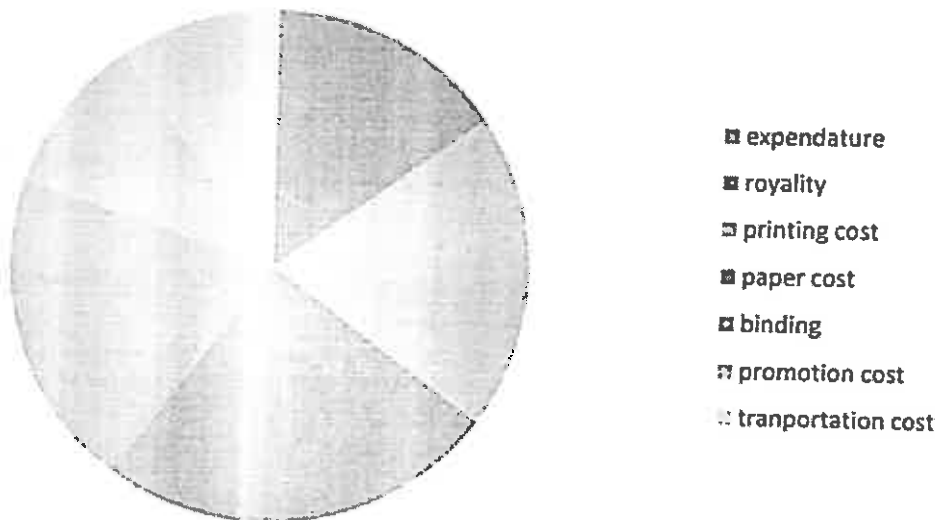11(a) Study the following seraph carefully to answer the following questions.

software export (in crores)

| | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 | 1998-99 |

software export (in crores)

(i)   Find the average growth rate in software export from 1992-93 to 1998-99.

(ii) Find the average growth per year of software export in rupees from 1992-93 to 1998-99.

(b)   study the pie chart and the answer the questions based on it. Various expenditure(in percentage) incurred in publishing a book

royalty	15%
printing cost	20%
paper cost	25%
binding	20%
promotion cost	10%
transportation cost	10%

Column1

- ▣ expendature
- ▣ royality
- ▣ printing cost
- ▣ paper cost
- ▣ binding
- ▣ promotion cost
- ▣ tranportation cost

(i) If for a certain quantity of books , the publisher ha to pay rs .30,600 as printing cost, then what will be amount of royalty to be paid for these books?

(ii) What is central angle of the sector corresponding to the expenditure incurred on royalty?

(iii) Royalty on the book is les than the printing cost by?

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