

**B.Tech. SEM -IV (Chemical/ Civil/ Electrical/ Mechanical/ Production/  
Computer/ Info. Tech./ Electronics / Bio Medical / E & TC) 2014**

**Course (CBCS) : SUMMER - 2019**

**SUBJECT: PROFESSIONAL SKILL DEVELOPMENT-IV**

Day: Tuesday  
Date: 04/06/2019

**S-2019-2596**

Time: 10.00 AM TO 01.00 PM  
Max. Marks: 100

**N.B:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answer to both the sections should be written in **SAME** answer books.

**SECTION-I**

**Aptitude (Math's & Logical Reasoning)**

**Q.1** Answer the following questions: **(16)**

- a) The compound interest on Rs. 30, 000 at 7%. Per annum is Rs. 4347. The period (in years) is.
- b) If the simple interest on a sum of money for 2 years at 5%. Per annum is Rs 50, what is the compound interest on the same amount at the same rate and for the same time.
- c) A man invested an amount of Rs. 8000 in a fixed deposit scheme for 2 years at compound interest of 5%. Per annum. How much amount will a man get on maturity of the fixed deposit?
- d) How long will it take for a sum of money to grow from Rs. 1250 to Rs. 10,000. If it is invested at 12.5% p.a. simple interest.
- e) A, B and C play cricket. The ratio of the runs scored by A and B is 3:2. The ratio of the runs scored by B and C is 3:2 together. They scored 342 runs. How many runs did A make?
- f) A fort has provisions for 60days. If after 15 days 500 men strengthen them and the food lasts 40 days longer. How many men are there in the fort.
- g) The present ages of A and B are as 6:4. Five years ago, their ages were in the ratio 5:3. Find their present ages.
- h) Divide Rs. 1500 among A, B and C so that A receives  $\frac{1}{3}$  as much B and C together and B receives  $\frac{2}{3}$  as A and C together. A's share is?

**Q.2** Answer the following questions: **(08)**

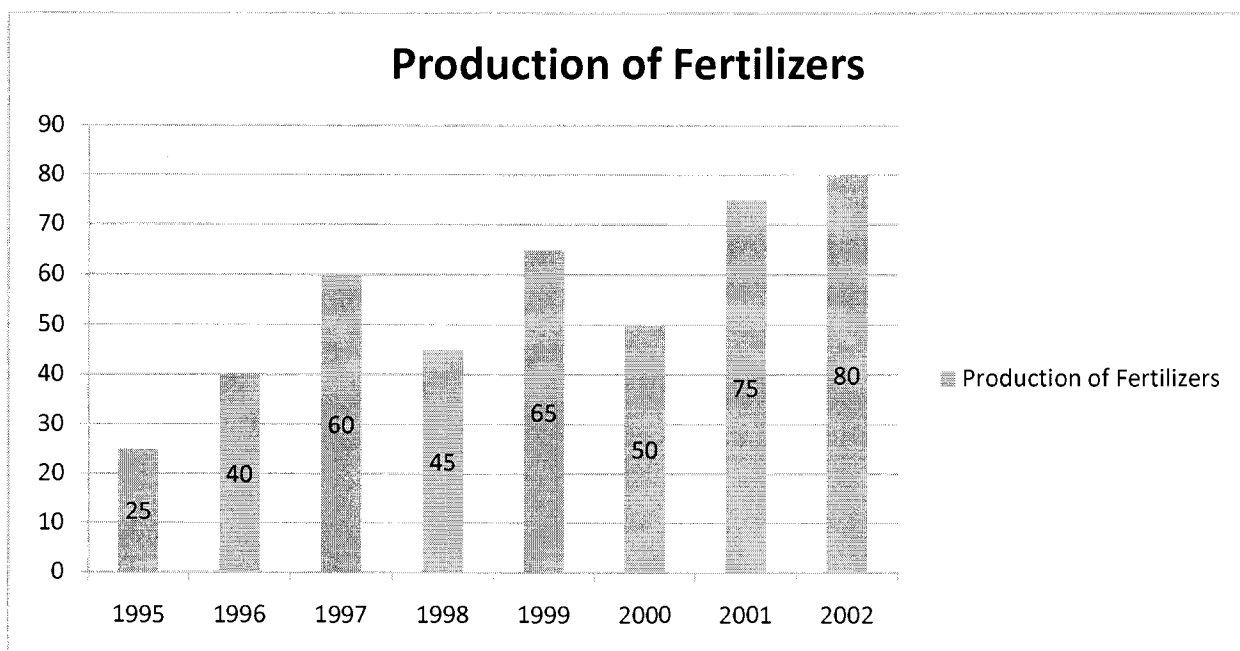
- a) How many kg of tea powder costing Rs. 31 per kg be mixed with 36 kg of tea powder costing Rs. 43 per kg. Such that the mixture when sold at Rs. 44 per kg gives profit of 10%?
- b) Milk contains 15% water. What quantity of pure milk should be added to 50 litres of milk to reduce the quantity of water to 12%.
- c) Rani mixes 70 kg of sugar worth Rs. 28.50 per kg with 100kg of sugar worth Rs. 30.50 per kg. At what rate shall be she sold the mixture to gain 10% profit?
- d) A container contains 50 litres of milk from this container 10 litres of milk was taken out and replaced by water. This process is repeated one more time.

**P.T.O.**

**Q.3**

Study the bar chart and answer the questions based on it.  
Production of fertilizers by a company (in 1000 tonnes) over the years.

**(10)**



- a) What was the percentage decline in the production of fertilizers from 1997 to 1998?  
i) 33 (1/3)%      ii) 20%      iii) 25%      iv) 21%
- b) The average production of 1996 and 1997 was exactly equal to the average production of which of the following pairs of years?  
i) 2000 and 2001      iii) 1999 and 2000  
ii) 1998 and 2000      iv) 1995 and 2001
- c) What was the percentage increase in production of fertilizers in 2002 compared to that in 1995?  
i) 320%      ii) 300%      iii) 220%      iv) 200%
- d) In which year was the percentage increase in production as compared to the previous year maximum?  
i) 2002      ii) 2001      iii) 1997      iv) 1996
- e) In how many of the given years was the production of fertilizers more than the average production of the given years?  
i) 1      ii) 2      iii) 3      iv) 4

**Q.4**

Here, you are given a question and a set of statements. You have to find which of the given statement is required to reach the answer. **(06)**

Answer options:

- i) Statement I alone is sufficient  
ii) Statement II alone is sufficient  
iii) Both statements I and II together are sufficient  
iv) Both statements I and II together are not sufficient
- a) Who is the tallest among the brothers A, B, C, D?  
Statement- I: C is shorter than only B  
Statement- II: D is taller than only A
- b) What is the value of X?  
Statement – I:  $x^2 + x - 6 = 0$   
Statement – II:  $x \geq 0$
- c) How is Bill related to Betty?  
Statement – I: Cindy, the wife of Bills only brother, Chris does not have any sibling.  
Statement- II: Betty is Cindy's brother in Law's wife.

**(Verbal Ability)**

(10)

- Q.6** Write the meaning of the each phrase and construct a sentence for each one. **(10)**

- |      |                        |       |                            |
|------|------------------------|-------|----------------------------|
| i)   | Sitting on the fence   | vi)   | Hard and fast rule         |
| ii)  | By fits and starts     | vii)  | Out of the way             |
| iii) | Spread like wild fire  | viii) | To bell the cat            |
| iv)  | Through thick and thin | ix)   | Turn a deaf ear            |
| v)   | A Bone of contention   | x)    | Put a spoke in one's wheel |

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**SECTION-III**  
**(English Communication)**

- Q.7** As supplier, write an email to the manager of m/s Big wheel manufacturing company Mr. Chopra. Intimating of their payment that is due for the products delivered to them three months ago sign the email as Ramesh. (10)  
Use these phrases – on time – delivery of goods, three months – credit period – overdue – payment of the earliest, long standing – relationship.
- Q.8** What are the netiquettes of email writing? Illustrate with proper reasoning for convincing email. (10)
- Q.9** Write the answer of the following questions:
- a)** What is the cross cultural negotiation, How does it help to lead business in smooth way? (05)
  - b)** Elaborate the critical factors for developing a corporate leadership? (05)
  - c)** State the various etiquettes of telephonic interviews for placement? (05)
  - d)** What strategies one should use to resolve the conflict in the corporate sector? (05)

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