

**B.Tech. SEM -III (Chemical/ Civil/ Electrical/ Mechanical/ Production/  
Computer/ Info. Tech./ Electronics / Bio Medical / E & TC) 2014  
Course (CBCS) : SUMMER - 2019**

**SUBJECT: PROFESSIONAL SKILL DEVELOPMENT - III**

Day: Thursday  
Date: 16/05/2019

**S-2019-2550**

Time: 02.30 PM TO 05.30 PM  
Max Marks. 100

**N.B. :**

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

**SECTION - I  
(Quantitative Aptitude and Logical Reasoning)**

**Q.1** Solve the following questions: **(14)**

- a) The salary of Amit is 30% more than that of Varun. Find by what percentage is the salary of Varun less than that of Amit?
- b) The price of rice falls by 20%. How much rice can be bought now with the money that was sufficient to buy 20 kg of rice previously?
- c) The population of a village is 1,00,000. The rate of increase is 10% per annum. Find the population at the start of third year.
- d) By selling a watch for Rs.495 a shopkeeper incurs a loss of 10%. Find the cost price of the watch for the shopkeeper.
- e) A shopkeeper sold goods for Rs.2400 and made a profit of 25% in the process. Find his profit percent if he had sold his goods for Rs.2040.
- f) A coal merchant makes a profit of 20% by selling coal at Rs.25 per quintal. If he sells the coal at Rs.22.50 per quintal. What is his profit percent on the whole investment?
- g) The marked price of a table is Rs.1200 which is 20% above the cost price. It is sold at a discount of 10% on the marked price. Find the profit percent

**Q.2** Solve the following questions: **(20)**

- a) Kamal is the son of Sheela. The son of the daughter of Kamal's grand father has only one maternal uncle. What relation does this uncle has with Sheela?
- b) Ravi is the son of A. D is the father of Sunita. A is the sister of Naresh. If D is married to Ravi's mother. What is the relation of Naresh with Sunita?
- c) Introducing a man, a lady said, "The father of his father - in law is my father - in law". How is the man related to the lady?
- d) Bhawna leaves from her home. She first walks 30 meters in North-West direction and then 30 meters in South-West direction, next she walk 30 meters in South-East direction, finally she turns towards her house. In which direction she is moving?
- e) Michael walks 20 meters North, then he turns right and walks 30 meters. Then he turns right and walks 35 meters. Then he turns left and walks 15 meters. Then he again turns left and walk 15 meters. In which directions and how many meters away is he from his original position?
- f) The door of Aditya's house faces the East from the back side of his house; he walks straight 50 meters, then turns to the right and walks 50 meters again. Finally he turns towards left and stops after walking 25 meters. Now Aditya is in which direction from the starting Point?

**P.T.O.**

- g) If BRIGHTEN is written as HJSCMDSG. How is COMPLETE written in that code?
- h) In a certain language 'min fin bin gin' means trains are always late', 'gin din cin hin' means drivers were always Punished, 'bin cin vin rin' means driver stopped all trains and 'din kin fin vin' means all passengers were late, then How would be 'Drivers were late' written as?
- i) The sum of the digits of a two-digit number is 10 while when the digits are reversed the number decreases by 54. Find the changed number.
- j) Find the number of divisors of 1420.

**Q.3** Complete the series. **(06)**

- i) 5, 9, 16, 29, 54, 103 - ?
- ii) 5, 4, 15, 7, 23, 11, 29, 16, 33 - ?
- iii) 21, 2765, 4493, ?, 6005, 6221.

**SECTION - II**  
**(Verbal Ability)**

**Q.4** Find the correct Antonyms for given word. **(10)**

- a)** Mention
- |             |             |            |
|-------------|-------------|------------|
| i) Impart   | iii) Attend | v) Conceal |
| ii) Observe | iv) Mind    |            |
- b)** Overthrow
- |              |              |               |
|--------------|--------------|---------------|
| i) Supervise | iii) Sustain | v) Discourage |
| ii) Survey   | iv) Control  |               |
- c)** Pride
- |             |              |              |
|-------------|--------------|--------------|
| i) Utility  | iii) Penury  | v) Privation |
| ii) Disdain | iv) Humility |              |
- d)** Radical
- |             |               |                 |
|-------------|---------------|-----------------|
| i) Singular | iii) Normal   | v) Conservative |
| ii) Unusual | iv) Ingrained |                 |
- e)** Recover
- |             |              |               |
|-------------|--------------|---------------|
| i) Disprove | iii) Confute | v) Recuperate |
| ii) Relapse | iv) Trust    |               |
- f)** Religious
- |               |               |           |
|---------------|---------------|-----------|
| i) Skepticism | iii) Theology | v) Heresy |
| ii) Blasphemy | iv) Disunion  |           |
- g)** Revenges
- |               |                 |                 |
|---------------|-----------------|-----------------|
| i) Disclosure | iii) Recompense | v) Insurrection |
| ii) Excuse    | iv) Separation  |                 |
- h)** Slow
- |                 |                |         |
|-----------------|----------------|---------|
| i) Cunning      | iii) Nimble    | v) Keen |
| ii) Penetrative | iv) Discerning |         |
- i)** Steal
- |             |             |               |
|-------------|-------------|---------------|
| i) Pillage  | iii) Desist | v) Recompense |
| ii) Restore | iv) Recover |               |
- j)** Restive
- |                 |                 |                |
|-----------------|-----------------|----------------|
| i) Docile       | iii) Motionless | v) Comfortable |
| ii) Accountable | iv) Mutinous    |                |

**Q.5** Compose a dialogue between a sales executive and a portable buyer of the Television set. Employ the following idioms and phrases to make conservation a convincing rhetoric. **(10)**

- |                                 |                             |
|---------------------------------|-----------------------------|
| <b>i)</b> A steal               | <b>vi)</b> Reinforce        |
| <b>ii)</b> The need of the hour | <b>vii)</b> Impeccable      |
| <b>iii)</b> Captivating         | <b>viii)</b> Turn green     |
| <b>vi)</b> An eye for details   | <b>ix)</b> A bare necessity |
| <b>v)</b> At far                | <b>x)</b> Eureka moment     |

**SECTION – III**  
**(English Communication)**

**Q.6** Write down the minutes of a meeting of the members of an Advisory board of a Charity Foundation about the channelization of surplus funds. **(10)**

- Q.7 a)** Classify the kinds of essay and give an example of each. **(05)**
- b)** Why is it necessary to define principles, concepts and processes in technical writing? **(05)**

**SECTION – IV**  
**(Soft skills)**

- Q.8 a)** What is the significance of a power point presentation and its contextual relevance in digital valency? **(05)**
- b)** How does a group discussion complement an exclusive opinion? Elucidate with apt precepts. **(05)**
- c)** How is a leader different from a mentor? Elaborate with examples. **(05)**
- d)** What is a career path? Enumerate the steps leading to a career path? **(05)**

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