

B. Tech - Sem - III, (2014 course), I.T. winter - 2018

B.Tech. SEM -III (Chemical/ Civil/ Electrical/ Mechanical/ Production/  
Computer/ Info. Tech./ Electronics / Bio Medical / E. & TC) 2014  
Course (CBCS) : WINTER - 2018

SUBJECT : PROFESSIONAL SKILL DEVELOPMENT - III

Day : Wednesday W-2018-2285 Time : 10.00 AM TO 01.00 PM  
Date : 05/12/2018 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: (16)

- a) In an examination, Mohit obtained 20 % more than Sushant but 10 % less than Amit. If the marks obtained by Sushant is 1080. Find the percentage marks obtained by Amit if the full mark is 2000.
- b) Ram spends 20 % of his monthly income on his house hold expenditure 15 % of the rest of books. 30 % of the rest on clothes and saves the rest. On counting, he comes to know that he has finally saved Rs. 9,520. Find his monthly income.
- c) A cow and a calf cost Rs. 2,000 and Rs. 1,400 respectively. If the price of the cow and that of calf is increased by 20 % and 30 % respectively then the price of 1 dozen cows and 2 dozens calves is?
- d) In an examination 80 % students passed in physics 70 % in chemistry while 15 % failed in both the subjects. If 325 students passed in both the subject. Find the total number of students who appeared in the examination.
- e) The cost price of 50 mangoes is equal to the selling price of 40 mangoes. Find the percentage profit?
- f) A reduction of 10% in the price of sugar enables a housewife to buy 6.2 kg more for Rs. 279. Find the reduced price per kilogram.
- g) A dealer sold two TV sets for Rs. 2,400 each gaining 20 % on one and losing 20 % on the other set. Find his net gain or net loss.
- h) A man buys two cycles for a total cost of Rs.900. By selling one for  $\frac{4}{5}$  of its cost and other for  $\frac{5}{4}$  of its cost he makes a profit of Rs. 90 on the whole transaction. Find the cost price of lower priced cycle.

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

- a) Introducing, a lady, a man said "Her father is my mother's only son". How is the lady related to the man?
- b) Vinod is the brother of Bhaskar. Manohar is the sister of Vinod. Bisval is the brother of Preetam and Preetam is the daughter of Bhaskar. Who is the uncle of Bisval?
- c) Ram is the father of Sushil and Kiran. Sushil is the son of Ram but Kiran is not the son of Ram. How is Kiran related to Ram?
- d) Sagar a college student is facing north west. He turns  $90^\circ$  in the clockwise direction and then  $135^\circ$  in the anti clockwise direction. Which direction is he facing now?
- e) Rakesh starts walking straight towards east. After walking 75 meters, he turns to the left and walks 25 meters straight. Again he turns to the left, walks a distance of 40 meters straight, again he turns to the left and walks a distance of 25 meters. How far is he from the starting point?
- f) Vinod walks 20 meters towards north. He then turns left and walks 40 meters. He again turns left and walks 20 meters. Further he moves 20 meters after turning to the right. How far is he from his original position?
- g) In a certain code GOODNESS is written as HNPCODTR. How GREATNESS would be written in that code.

P. T. O.

- h) In a certain code language:
- i) TIR MI SEK means Green and Teasty.
  - ii) DIK SEK FAR means Tomato Is Green.
  - iii) VOK TIR FAR means Food Is Teasty.
- What is the code for Tomato Is Teasty?
- i) A milkman has three different qualities of milk, 403 gallons of 1<sup>st</sup> quality, 465 gallons of 2<sup>nd</sup> quality and 496 gallons of 3<sup>rd</sup> quality. Find the least possible number of bottles of equal size in which different milk of different qualities can be filled without mixing?
  - j) What is the greatest number of 4 digits that when divided by any of the numbers 6, 9, 12, 17 leaves a remainder of 1?

Q. 3 Complete the series: (04)

- i) IAZ KEB ? OOF, QUH
- ii) 266, 339, 528, \_\_\_\_\_?
- iii) 3, 6, 5, 20, 7, 42, 9, \_\_\_\_?
- iv) AZBX ? EVFU, GJHS.

**SECTION – II**  
**(Verbal Ability)**

Q. 4 Each of the following words is followed by words one of which is its opposite in meaning. (10)

- a) Graceful
 

i) Troublesome	iii) Influential	v) Rigid
ii) Awkward	iv) supple	
- b) Incongruous
 

i) In coherent	iii) Harmonious	v) Interminable
ii) Audacious	iv) Conclusive	
- c) Liberty
 

i) Commandment	iii) Visibility	v) Disorderliness
ii) Perceptibility	iv) Captivity	
- d) Impediment
 

i) Peevishness	iii) Officiousness	v) Encumbrance
ii) Assistance	iv) Ceremony	
- e) Neglect
 

i) Spruce	iii) Slackness	v) Care
ii) Remissness	iv) Rapacity	
- f) Obstinate
 

i) Hoary	iii) Mullish	v) Perverse
ii) Amenable	iv) Tender	
- g) Pernicious
 

i) Salutory	iii) Inscrutable	v) Disastrous
ii) Recondite	iv) Deleterious	
- h) Greedy
 

i) Gluttonous	iii) Generous	v) Humane
ii) Grasping	iv) Gracious	
- i) Handle
 

i) Wild	iii) Avail	v) Discuss
ii) Bungle	iv) Direct	

- j) Horrible  
i) Agreeable                      iii) Ugly                              v) Deceptive  
ii) Despondent                      iv) Smart

**Q. 5** Use appropriate modal auxiliary in following sentences: (10)

- a) I \_\_\_\_\_ be happy to meet Robinson  
i) Will                              ii) Shall                              iii) Could
- b) \_\_\_\_\_ he plays for our team?  
i) Will                              ii) Shall                              iii) Both
- c) \_\_\_\_\_ I get a prize if I stand first in the examination?  
i) Will                              ii) Would                              iii) Should
- d) I \_\_\_\_\_ be able to beat him.  
i) Would                              ii) Should                              iii) Could
- e) Watch and pray lest you \_\_\_\_\_ fall into temptation.  
i) Should                              ii) Would                              iii) Could
- f) The old man \_\_\_\_\_ recline, in a corner and sleep most of the time.  
i) Should                              ii) Would                              iii) Could
- g) I \_\_\_\_\_ rather read a novel than watch that stupid movie.  
i) Would                              ii) Should                              iii) might
- h) \_\_\_\_\_ you mind lending me your pen for a minute?  
i) Should                              ii) Would                              iii) Could
- i) Till last year, I \_\_\_\_\_ read without glasses.  
i) Would                              ii) Should                              iii) Could
- j) If I \_\_\_\_\_ fly like a bird I \_\_\_\_\_ be with you now.  
i) Would, would                      ii) Could, could                      iii) Could, would

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

**Q. 6** Draft a Memorandum (Memo) from the administration office of children's toys production company to a retailer informing him/her of the new subsidy rates on their delivery. Use appropriate format. (10)

**Q. 7** Write a technical report on the damage control inspection of a small scale tertiary unit (hand room) to the Chief Supervisor of the unit. Give the details by using proper format. (10)

**SECTION – IV**  
**(Soft Skills)**

- Q. 8** a) What are the benefits of SWOT analysis in career planning? (05)  
b) How can career goals be developed? (05)  
c) What are the Psychological challenges faced by an amateur presenter at a meeting. Suggest remedial measures for the same. (05)  
d) Explain the styles of leadership. (05)