

**B.TECH. SEM -V (CHEMICAL/ CIVIL/ ELECTRICAL/  
MECHANICAL/ PRODUCTION/ COMPUTER/ INFO. TECH./  
ELECTRONICS / BIO MEDICAL / E & TC) 2014 COURSE (CBCS) :  
WINTER - 2017  
SUBJECT : PROFESSIONAL SKILL DEVELOPMENT – V**

Day : **Tuesday**  
Date : **23/01/2018**

Time : **02.30 PM TO 05.30 PM**  
Max. Marks : 100

**W-2017-2119**

**N. B. :**

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

**SECTION – I  
(QUANTITATIVE APTITUDE AND LOGICAL REASONING)**

**Q. 1** Choose the right option from the following to write answer of the questions.

- a) A and B can do a piece of work in 12 days and 16 days respectively. Both work for 3 days and then A goes away. Find how long will B take to complete the remaining work? **(02)**
- |             |              |
|-------------|--------------|
| i) 15 days  | iii) 10 days |
| ii) 12 days | iv) 9 days   |
- b) A can do a piece of work in 10 days. He works at it for 4 days and then B finishes it in a 9 days. In how many days can A and B together finish the work? **(02)**
- |            |                          |
|------------|--------------------------|
| i) 6 days  | iii) $8\frac{1}{2}$ days |
| ii) 8 days | iv) $7\frac{1}{2}$ days  |
- c) A work, which could be finished in 9 days, was finished 3 days earlier after 10 more men joined. The number of men employed was? **(02)**
- |        |         |
|--------|---------|
| i) 18  | iii) 22 |
| ii) 20 | iv) 24  |
- d) A and B can do a piece of work in 7 days with the help of C. They finish the work in 5 days. C alone can do that piece of work in? **(02)**
- |             |              |
|-------------|--------------|
| i) 1 day    | iii) 30 days |
| ii) 10 days | iv) 32 days  |

**Q. 2** Answer the following questions.

- a) A cyclist covers a distance of 750 meters in 2 minutes in 30 seconds. What is the speed in km/hr of cyclist? **(02)**
- |              |               |
|--------------|---------------|
| i) 16 km/hr  | iii) 17 km/hr |
| ii) 18 km/hr | iv) 19 km/hr  |
- b) How many minutes does Aditya take to cover a distance of 400 m. If he runs at a speed of 20 km/hr **(02)**
- |                        |                         |
|------------------------|-------------------------|
| i) $1\frac{1}{5}$ min  | iii) $3\frac{1}{5}$ min |
| ii) $2\frac{1}{5}$ min | iv) $4\frac{1}{5}$ min  |

**P. T. O.**



- d) What is the total number of men and children staying in locality I? (02)  
 i) 4115 iv) 4155  
 ii) 4551 v) None of these  
 iii) 4515
- e) What is the respective ratio of number of men staying in locality F to the number of men staying in locality H? (02)  
 i) 517:416 iv) 522:403  
 ii) 403:522 v) None of these  
 iii) 416:517

**Q. 4**

Directions:- In each of the questions below are given the statements followed by two conclusions numbered I and II. You have to take the given statements to be true, even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the following conclusions logically follows from the given statements disregarding the commonly known facts.

Answers options : ( choose from here)

- i) If only conclusion I follows  
 ii) If only conclusion II follows  
 iii) If either conclusion I or II follows  
 iv) If neither conclusion I nor II follows  
 v) If both conclusion I and II follow

- a) Statements : 1) Some pencils are erasers (02)  
 2) All pencils are sharpners  
 3) All erasers are not sharpners  
 Conclusions : I) All erasers can be pencils  
 II) Some sharpners are erasers
- b) Statements : 1) All gases are solids (02)  
 2) All solids are liquids  
 Conclusions : I) All gases are liquids  
 II) At least some liquids are solids
- c) Statements : 1) Some notes are coins (02)  
 2) No coin is a card  
 Conclusions : I) All cards can be notes  
 II) Some notes are neither coins nor cards
- d) Statements : 1) some notes are coins (02)  
 2) All coins are cards  
 Conclusions : I) All notes are coins  
 II) Some coins are cards

**Q. 5**

Directions: - Each of the questions below consist of a question and two statements numbered I and II given below it. You have to decide whether given data in the statements are sufficient to answer the questions or not?



