B. Tech - Sem - V, (2014 course), Computer
winter - 2018

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

SUBJECT : PROFESSIONAL SKILL DEVELOPMENT – V

Day : Tuesday
Date : 04/12/2018

W-2018-2382

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 all the sections should be written in **SAME** answer book.

Q.1 Solve the following questions. **(10)**

a) A truck covers a certain distance in 8 hours at the speed of 63 km per hour. What is the average speed of a car which travels a distance of 120 km more than the truck in the same time?

b) The simple interest occurred in 10 years on a principal of Rs 15500 is 120% of the principal. What is the rate of the interest percent per annum?

c) 4 women alone can complete a piece of work in 8 days whereas 4 children alone take 20 days to complete the same piece of work. How many days will 2 women and 15 children together take to complete the piece of work?

d) Mahesh walks 160 meter every day. How many km will he walk in 4 weeks?

e) Yesterday, Shweta completed 300 units of work at the rate of 15 units per minute. Today she completed the same unit of work but her speed was 40% faster than yesterday. What is the approximate difference in the time she took to complete the work yesterday and the time she took today?

Q.2 Solve the following questions. **(10)**

a) The average speed of a bus is 8 times the average speed of a bike. The bike covers a distance of 186 km in three hours. How much distance will the bus cover in 10 hours?

b) What will be the compound interest obtained on a principal amount of Rs. 5500 at the rate 3% per annum after two years?

c) The average speed of a bus is 67km per hour. The bus was scheduled to start at 12 pm. It was scheduled to reach a destination 335 km away from its starting point at 7 pm and a halt was scheduled on the way. For how long was the halt scheduled?

d) A train crossed a platform in 36 seconds. The length of the train is 160 meter. What is the length of the platform?

e) In an examination it is required to get 36% marks to pass. A candidate secured 400 marks and failed by 32 marks. What are the maximum marks of the examination?

Q.3 (Q. No. A to E) In each question below are three statements followed by two conclusions numbered I and II. You have to take the three given statements to be true even if they seem to be at variance from commonly known facts and then decide which of the given conclusions logically follows from the three statements disregarding commonly known facts. **(10)**

Give answers:

I) If only conclusion I follows
II) If only conclusion II follows
III) If either conclusion I or conclusion II follows
IV) If neither conclusion I nor conclusion II follows
V) If both conclusion I and conclusion II follow

P. T. O.

a) Statements : Some choices are mistakes
All mistakes are error
No error is justified
Conclusions: I) Some Choices are justified
II) All mistakes are not justified

b) Statements : All bicycles are buses
Some buses are cars
All cars are carts
Conclusions: I) Some carts are cars
II) Some bicycles are cars

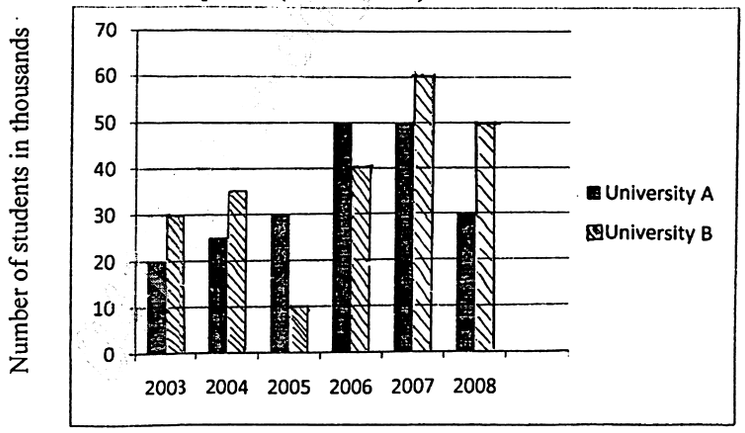
c) Statements : All big are short
Some short are long
Some long are thin
Conclusions: I) Some short are thin
II) Some thin are not long

d) Statements : All rewards are achievements
All achievements are successes
All successes are everlasting
Conclusions: I) All successes are achievements
II) Some everlasting are not successes

e) Statements : Some rivals are enemies
No enemy is a friend
Some friends are strangers
Conclusions: I) Some rivals are not friends
II) All strangers are friends

Q. 4 (Q. No. A to E) Study the following graph carefully to answer the questions that follows **(10)**

Number of students passed (in thousands) from two universities over the years.



a) What is the respective ratio between the number of students passed from University A in year 2007 and the number of students passed from University B in year 2004?

b) What is the difference between the total number of students passed from both universities in year 2007 together and the total passed in year 2005 from both Universities together?

c) What is the sum of students passed from University B in year 2003, 2005 and 2006 together?

d) Number of students passed from University B in year 2008 is approximately what percentage of the total number of students passed from University A over the years?

e) What is the respective ratio between the number of students passed in year 2007, 2008 and 2005 from University A?

Q. 5 Solve the following questions **(10)**

a) In the following series one is wrong. Find out the wrong one:

i) 217, 216, 212, 203, 187, 151, 126
ii) 13, 16, 19, 23, 29, 31, 37

b) If K denoted ×, B denotes ÷, T denotes – and M denotes + then 40B8T6M3K4=?

c) Pointing to a girl, Mr. Suraj said, "she is the only daughter of my father's son in law." How is the girl related to Mr. Suraj?

d) How many such digits are there in the number 37152869 each of which is as far away from the beginning of the number as when the digits are arranged in ascending order within the number?

e) A number consist of two digits whose sum is 8. If 18 is subtracted from the number, the digits interchange their places. What is the number?

SECTION-II
(VERBAL ABILITY AND ENGLISH GRAMMAR)

Q.6 A) Do as directed **(10)**

i) 'Fastidious' refer to the person who_____

a) is difficult to please
b) likes to much of fashion
c) fasts frequently
d) is always quiet

ii) The newspaper wrongly _____the statements to the Home minister.

a) applied
b) attributed
c) allotted
d) assigned

iii) 'Iconoclast' is a person who_____

a) hates religion
b) believes in God
c) does not believe in democracy
d) attacks widely held beliefs and customs

iv) Verdict is_____

a) opinion of a priest
b) opinion of a doctor
c) the opinion of a common man
d) the official decision made by a jury in a court of law

v) He dreamt of becoming a matinee _____

a) ideal
b) idle
c) idol
d)) idyll

vi) Malefactor means _____

a) poor addition
b) a miser
c) a criminal
d) to misunderstand

vii) Select the word which fits the definition most closely, Easily hurt _____

a) sensible
b) painful
c) damaged
d) sensitive

viii) I dropped in at Mohan's place on my way to office .The underlined phrase means that

a) I fell down
b) I drank water
c) I handed over a letter
d) I paid a casual visit

ix) We can not afford _____ this summer

a) going away
b) for going away
c) for us to go away
d) to go away

x) 'A wild goose chase means

a) Hunting a goose in a forest
b) A foolish and unprofitable adventure
c) A good and admirable adventure
d) A successful and profitable adventure

B) Do as directed **(10)**

i) Ram said that he_____ to Kolkata

a) has been
b) had been
c) have been
d) would have be

ii) Change to indirect speech
Mohan said, " please give me two colored pencil"

iii) Choose the correct preposition
My friend has been living there _____1970

a) till
b) for
c) since
d) then

iv) Make the correct complex sentence joining the following sentences
My friend is a teacher. My friend lives in Mumbai

v) Use the correct verb
Oh, that I _____young again

a) am
b) was
c) were
d) will be

vi) Choose the relevant option for
Neither the man nor his wife_____

a) have done much work
b) has done much work
c) were doing much work
d) are doing much work

vii) Change the voice
A committee makes the selection of students

viii) Do the proper question tag for

I am older than you_____?

ix) One should be proud of_____ motherland

a) his
b) ones
c) one's
d) once

x) Could you tell me_____

a) Where is the bank?
b) Where the bank is?
c) "Where the bank is?"
d) That where the bank is?

SECTION – III
(Soft Skills)

Q. 7 Imagine yourself as head of manufacturing company. You work closely with two managers S. P. Sharma and D. S. Melhotra. S. P. Sharma heads up production Department and wants to buy a machine to increase production. D. S. Melhotra works in a purchasing department and wants to cut down the cost. He understands S. P. Sharma's motivation but informs him that the company won't be making any purchase. This created a conflict and transformed in problem for company. What steps would you take to resolve conflict and problem to bring the healthy atmosphere in company? **(10)**

Q. 8 Answer the following questions:

a) Explain the advantages of being a starter of a group discussion. **(05)**

b) Elaborate a situation in which you found a creative way to overcome on obstacles. **(05)**

c) Discuss the role of business etiquettes in one's professional life. **(05)**

d) What do you understand by Time Management? How do you avoid Time Waster? **(05)**

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