

BACHELOR OF TECHNOLOGY (C.B.C.S.) (2014 COURSE)
B.Tech.Sem - VI CHEMICAL,CIVIL,COMPUTER,E
&TC,ELECTRICAL,ELECTRONIC,IT,MECHANICAL :SUMMER- 2022
SUBJECT : PROFESSIONAL SKILL DEVELOPMENT-VI

Day : Monday
Date : 27-06-2022

S-13289-2022

Time : 02:30 PM-05:30 PM
Max. Marks : 100

N.B.

- 1) Attempt all questions.
- 2) Figures to the right indicate **FULL** marks.
- 3) Use of non – programmable **CALCULATOR** is allowed
- 4) Draw neat and labeled diagram **WHEREVER** necessary.
- 5) Assume suitable data wherever necessary.

SECTION - I
(Quantitative Aptitude and Logical Reasoning)

Q.1 Solve the following questions. **(20)**

- a) Bag contain 10black and 20 white balls, One ball is drawn at random. What is the probability that ball is white?
i) 1 ii) $\frac{2}{3}$ iii) $\frac{13}{3}$ iv) 22
- b) There are 30 people in a group. If all shake hands with one another, how many handshakes are possible?
i) 870 ii) 435 iii) 301 iv) $29!+1$
- c) In how many ways can we arrange the word 'FUZZTONE' so that all the vowels come together?
i) 1440 ii) 6 iii) 2160 iv) 4320
- d) A person has 6 friends to be invited for dinner through invitation cards, and he has 3 servants. In how many ways can be extend the invitation card?
i) 729 ii) 829 iii) 27 iv) 629
- e) How many words can be formed from the letters of the word TRIANGLE with T always at the beginning and E at the end
i) 720 ii) 620 iii) 210 iv) 310
- f) There are 12 Buses running between London and Manchester, In how many ways can Jose Mourinho go from London to Manchester and return in a different Bus?
i) 132 ii) 144 iii) 264 iv) 64
- g) In how many ways number of 2 digits can be formed out of the four digits 1, 2, 3, and 4?
i) 6 ii) 9 iii) 12 iv) 18
- h) In how many ways a football Team of 11 can be selected from a squad of 15 players?
i) 2100 ii) 2330 iii) 2410 iv) 2730
- i) A bag contains 1100 tickets numbered 1, 2, 3, 1100. If a ticket is drawn out of it at random. What is the probability that the ticket drawn has the digit 2 appearing on it?
i) $\frac{291}{1100}$ ii) $\frac{292}{1100}$ iii) $\frac{290}{1100}$ iv) $\frac{301}{1100}$
- j) How many words can be formed from the letters of the word GLOBE
i) 60 ii) 120 iii) 150 iv) 180

P.T.O.

Q.2

Solve the following questions.

(20)

- a) A man who goes to work long before sunrise every morning gets dressed in the dark. In his sock drawer he has 6 black and 8 blue socks. What is the probability that his first pick was a black sock, but his second pick was a blue sock?
i) 24/71 ii) 22/91 iii) 24/91 iv) 22/71
- b) Two letters are selected randomly from English alphabet simultaneously. What is the probability that one is a constant and the other a vowel?
i) 10/67 ii) 21/65 iii) 44/65 iv) 21/13
- c) The probability that a number selected at random from the first 50 natural numbers is a composite number is - ?
i) 21/25 ii) 17/25 iii) 16/25 iv) 13/25
- d) If two dice are thrown together, the probability of getting an even number on one die and an odd number on the other is ?
i) 1/4 ii) 1/2 iii) 3/4 iv) 3/5
- e) Out of first 20 natural numbers one number is selected at random. The probability that it is either an event number or a prime number is ?
i) 1/2 ii) 16/19 iii) 13/5 iv) 17/20
- f) An accurate clock shows 7 a. m. Through how many degrees will the hour hand rotate when the clock shows 1 p.m.
i) 154° ii) 180° iii) 170° iv) 160
- g) A house has two wall clocks, one in kitchen and one more in the bedroom. The time displayed on both the watches is 12 A. M. right now. The clock in the bedroom gains five minutes every hour whereas the one in the kitchen is slower by five minutes every hour. When will both the watches show the same time again?
i) 72 hours ii) 18 hours iii) 36 hours iv) 24 hours
- h) Gurukiran's birthday is on Sunday 21st May of the week will be Shreyas's birthday in the same year if Shreyas was born on 14th November?
i) Tuesday ii) Wednesday iii) Friday iv) Sunday
- i) Karan remembers that his sister's birthday is not after 18th August. Karan's mother remembers that Karan's sister birthday is before 20 August but after 17th August. On which date of August is Karan's sister birthday?
i) 18 ii) 17 iii) 19 iv) 20
- j) A clock is set at 4 am. It loses 16 minutes in 24 hours. What will be correct time the clock indicates 9 pm on the 4th day?
i) 8pm ii) 7pm iii) 10pm iv) 11pm

Q.3

Directions A word and number arrangement machine, when given an input line of words and numbers, rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

(10)

Input: fire 76 for 53 fauna 14 favour 27 freedom 36

Step I : 78 fauna fire for 53 14 favour 27 freedom 36

Step II: 51 favour 78 fauna fire for 14 27 freedom 36

Step III: 38 freedom 51 favour 78 fauna fire for 14 27

Step IV : 25 fire 38 freedom 51 favour 78 fauna for 14

Step V : 16 for 25 fire 38 freedom 51 favour 78 fauna

Step V is the last step. Find the different steps of output using the above mentioned logic for the following input

Input: Prison 24 pirates 61 proxy 70 prone 53 prejudice 17

Refer the above for the questions 1 to 5

P.T.O.

- Q.4** Select the correct meaning of the underlined word from the options given below. **(10)**
- a) He is unpopular due to his overbearing behavior.
i) over smartness ii) disloyal iii) cunning iv) arrogant
- b) He was engrossed in his office routine.
i) involved ii) fully occupied iii) tired iv) lost
- c) Industrious people should be rewarded.
i) hardworking ii) intelligent iii) commercial iv) energetic
- d) The student was asked to rectify the problem.
i) correct ii) condone iii) clarify iv) repeat
- e) The irate customer was pacified by the shopkeeper
i) quietened ii) silenced iii) pleased iv) flattered
- f) The soldier received the Bravery Award for his exemplary display of courage during the war.
i) new ii) strange iii) abnormal iv) praiseworthy
- g) Mr. Kumar was fired for continually coming late to the office
i) beaten ii) scolded iii) abused iv) dismissed
- h) A conscientious worker is always admired by his colleagues
i) obedient ii) sincere iii) skillful iv) careful
- i) My students in the laboratory are rather inquisitive about the language learning softwares.
i) sensitive ii) careful iii) curious iv) anxious
- j) The automobile industry depends on indigenous technology.
i) sophisticated ii) ancient iii) alien iv) native

SECTION – III
(ENGLISH COMMUNICATION AND SOFT SKILL)

- Q.5** How important is Group discussion as a part of the selection process. **(05)**
- Q.6** How important is the resume in the whole interview process and what are the strategic points in the resume that require special attention by the candidate. **(05)**
- Q.7** Illustrate the importance of tone and language in making effective presentations. **(05)**
- Q.8** Discuss the importance of Business writing. Which are the five main stages of writing business messages that one should follow to frame a perfect message. **(05)**
- Q.9** Business etiquette can improve a company's or organization's bottom line. Do you agree with this statement? Justify your answer by listing the important workplace etiquette. **(05)**
- Q.10** Your placements are going to commence next month. What preparations will you make to get through the job interview? **(05)**