BACHELOR OF TECHNOLOGY (C.B.C.S.) (2014 COURSE)
B.Tech.Sem - IV CIVIL :SUMMER- 2022
SUBJECT : PROFESSIONAL SKILL DEVELOPMENT-IV

Day : Tuesday   Time : 10:00 AM-01:00 PM
Date : 28-06-2022   **S-12706-2022**   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.

SECTION – I
Aptitude (Maths and Logical Reasoning)

Q.1   A certain sum put out at compound interest amounts to ₹ 8,820 in 3 years and   **[02]**
       to ₹ 9,261 in 4 years. Find the rate .
  a) 5.5%   **b)** 3.8%   **c)** 6%   **d)** 5%   **e)** none of these

Q.2   Find the difference between compound interest and simple interest on ₹ 1,000   **[02]**
       in 3 years at 10% yearly.
  a) ₹ 331   **b)** ₹ 441   **c)** ₹ 341   **d)** ₹ 300   **e)** none of these

Q.3   The sum of present ages of two brothers is 36 years. After 4 years their ages   **[02]**
       will be 5:6. The age of the elder brother is
  a) 12 years **b)** 16 years **c)** 20 years   **d)** 30 years **e)** none of these

Q.4   In a mixture of 35 liters, the ratio of milk and water is 4:1. Another 7 liters of   **[02]**
       water is added to the mixture. Find the ratio of milk and water in the resulting
       mixture.
  a) 3:1   **b)** 4:2   **c)** 2:1   **d)** 3:2   **e)** none of these

Q.5   A and B can finish a work in 16 days while A alone can do the same work in   **[02]**
       24 days. Therefore 'B' alone can finish it in:
  a) 36 days **b)** 24 days   **c)** 48 days   **d)** 56 days

Q.6   Study the table answer the questions given below: **[10]**

Percentage of people preferring five different varieties of cloth A, B, C, D and E

	Percentage of People				
Year	Variety				
	A	B	C	D	E
2001	12	45	40	20	10
2002	15	35	42	22	12
2003	20	40	35	24	10
2004	18	35	45	26	14
2005	14	37	50	27	20
2006	10	30	52	28	20

  1) Which variety of cloth is gaining every year in popularity?
      a) A   **b)** D   **c)** C   **d)** E   **e)** none of these

  2) Which variety of cloth has registered gain and loss in popularity every alternate
      year?
      a) A   **b)** B   **c)** C   **d)** D   **e)** E

  3) In which year have people not shown preference for more than one cloth?
      a) 2001 **b)** 2003 **c)** 2004 **d)** Cannot be determined **e)** none of these

  4) Which variety of cloth is the most popular over the years?
      a) B   **b)** C   **c)** D   **d)** E   **e)** none of these

  5) The popularity of which cloth increased slowly initially but again declined?
      a) A   **b)** B   **c)** C   **d)** D   **e)** E

Q.7   Read the following information carefully and answer the questions given below   **[05]**
it.
P, Q, R, S and T are members of the same family. There are two fathers, two sons and two wives, three males and two females in the group. The Engineer was the wife of Teacher, who was the son of a painter. T is neither a male nor the wife of a professional. R is the youngest person in the family and S is the eldest. Q is a male.

1)   How is P related to Q?

   a) Husband   **b)** Wife   **c)** Mother   **d)** Daughter
2)   Who is the father of R?

   a) P   **b)** Q   **c)** S   **d)** T
3)   Whose wife is the Engineer?

   a) P   **b)** Q   **c)** R   **d)** S
4)   Who are the females in the group?
   a) T and P   **b)** Q and P   **c)** R and Q   **d)** T and Q

5)   How is the S related to T?
   a) Wife   **b)** Husband   **c)** Father   **d)** Son

Q.8   Complete the series: **[05]**

1)   DCXW, FEVU , HGTS - ?
   a) LKPQ   **b)** ABZ   **c)** JIRQ   **d)** LMRS

2)   AB, DEF, HIJK -- ? -- STUVWX
   a) MNOPQ   **b)** LMNOP   **c)** LMNO   **d)** QRSTU

3)   C, G, L, R - ?
   a) Y   **b)** S   **c)** U   **d)** Z

4)   3, 10, 29, 66, 127, - ?
   a) 164   **b)** 187   **c)** 218   **d)** 216

5)   6, 11, 21, 36, 56 -- ?
   a) 51   **b)** 91   **c)** 42   **d)** 81

Q.9   Read the following questions carefully and answer it: **[10]**

1)   A train 250 meters long passes a pole in 12 seconds. Then the speed of train is:
   a) 25 km/hour   **b)** 68 km/hour   **c)** 72 km/hour   **d)** 75 km/hour
   e) 135km/hour

2)   A man travels 12 km West, then 3 km towards South and then 8 km towards East. How far is he from starting point?
   a) 23 km   **b)** 20 km   **c)** 15 km   **d)** 5 km

3)   Santosh walks towards North. From there he walks 6 km towards south. Then he walks 3 km towards East. How far and in which direction is he from starting point?
   a) 5 km West   **b)** 7 km West   **c)** 5 km North-East   **d)** 7 km East

4)   If ROSE is coded as 7621 and STAR coded as 2357. Find code for ROASTED.
   a) 7652418   **b)** 7652312   **c)** 7652138   **d)** 7652319

5)   A railway train travelling at 72 km per hour crosses a signal in 9 seconds what is the length of the train in meters?
   a) 1800   **b)** 180   **c)** 90   **d)** 18

SECTION – II
(Verbal Ability)

Q.10 Pairs of words often confused are given below. Find out the meaning of the **[10]** words and use each of them in your own sentences **(ANY FIVE)**:
  a) Accept and Except
  b) Stationary and Stationery
  c) Amiable and Amicable
  d) Storey and Story
  e) Personal and Personnel
  f) Check and Cheque
  g) Write and Right

Q.11 Write new words beginning with the prefixes and suffixes given below **[05]** **(ANY FIVE)**:
  a) Prefixes – de, dis, mis, semi, un, vice, micro.
  b) Suffixes – ment, ship, ion, al, ly.

Q.12 Find out the meanings of following phrasal verbs and use it in proper **[05]** sentences **(ANY FIVE)**:

a) Bring about		e) Tear down
b) Carry on		f) Wind up
c) Hand over		g) Throw away
d) Send over		h) Push across

SECTION – III
(English Communication)

Q.13 What is an essay? Explain the classification of essays, characteristics of a **[10]** good essay and How to write a good essay ? mention important tricks of it.

Q.14 Discuss advantages and limitations of email writing. Write the format of **[10]** email writing.

SECTION – IV
(Soft Skills)

Q.15 Discuss some effective ways for handling telephonic interviews. **[05]**

Q.16 Explain the Pareto Principle of The Time Management. **[05]**

Q.17 What is the difference between leadership and management? Justify your **[05]** answer with examples.

Q.18 Why are the soft skills necessary for technical students? Explain five **[05]** reasons for it.

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