

**B.TECH. SEM -IV (CHEMICAL/ CIVIL/ ELECTRICAL/
MECHANICAL/ PRODUCTION/ COMPUTER/ INFO. TECH./
ELECTRONICS / BIO MEDICAL / E & TC) 2014 COURSE (CBCS)
: SUMMER - 2018**

SUBJECT : PROFESSIONAL SKILL DEVELOPMENT – IV

Day : **Thursday**
Date : **14/06/2018**

S-2018-2275

Time : **10.00 AM TO 01.00 PM**
Max. Marks : 100

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.

SECTION – I

**Q.1 to Q. 20 ½ Marks Each,
Q.21 to Q.25 2 Marks Each,
Q.26 to Q.45 ½ Marks Each and
Q.46 to Q.50 2 Marks Each.**

- 1) Find the sum of squares first ten natural numbers.
 - a) 281
 - b) 385
 - c) 402
 - d) 502
- 2) The LCM of two numbers is 5200 and their HCF is 40. if one of the numbers is 520, find other.
 - a) 240
 - b) 560
 - c) 400
 - d) 320
- 3) Find HCF of $\frac{3}{5}$ and $\frac{12}{13}$.
 - a) $3/65$
 - b) $3/130$
 - c) $3/6$
 - d) $3/13$
- 4) Find a if $7a4$ is divisible by 9.
 - a) 6
 - b) 5
 - c) 4
 - d) 7
- 5) Find sum of first 50 even numbers.
 - a) 1275
 - b) 2650
 - c) 5100
 - d) 2550
- 6) Find unit digit in product of $(254 \times 361 \times 159 \times 18)$.
 - a) 1
 - b) 6
 - c) 4
 - d) 8
- 7) Find value of $4056 \div 26$ of $26 - \sqrt[3]{216}$.
 - a) 6
 - b) 0
 - c) 26
 - d) 104
- 8) Find sum of first ten odd numbers.
 - a) 105
 - b) 100
 - c) 110
 - d) 120
- 9) If HCF of two numbers is 3 and their LCM is 24. find the two numbers.
 - a) 24, 1
 - b) 3, 8
 - c) 3, 24
 - d) 6, 24

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- 10) A : B = 4: 5 and sum of A and B is 45. find value of B
 a) 28 c) 31.5
 b) 33.5 d) 36
- 11) Which fraction bears the same ratio to $\frac{3}{7}$ as $\frac{1}{27}$ bears to $\frac{1}{35}$?
 a) $\frac{4}{9}$ c) $\frac{3}{5}$
 b) $\frac{1}{3}$ d) $\frac{5}{9}$
- 12) What percent of $\frac{5}{3}$ is $\frac{3}{4}$?
 a) 50% c) 40%
 b) 55% d) 45%
- 13) Find unit digit in product of $(3587)^{153} \times (521)^{72}$.
 a) 6 c) 8
 b) 7 d) 9
- 14) 30% of 1500 = 75% of x. find x.
 a) 400 c) 600
 b) 500 d) 700
- 15) 32% of 5% of 23% of x = 7.36. find x.
 a) 2000 c) 5000
 b) 8000 d) 6000
- 16) An article was sold in Rs. 3600 with the profit of 20%. Find cost price.
 a) 2000 c) 4000
 b) 3000 d) 5000
- 17) A man purchased an article for Rs. 7200 and sold it with profit of 25%. Find Selling Price.
 a) 9000 c) 10000
 b) 7800 d) 8000
- 18) 45% of 750 – 25% of 480 = x. Find x.
 a) 216 c) 236.50
 b) 217.50 d) 245
- 19) 218% of 1674 = x × 1800. Find x.
 a) 0.5 c) 6
 b) 4 d) None of these
- 20) A number when divisible by 4 is reduced by 21. Find number.
 a) 18 c) 28
 b) 20 d) 38
- 21) There were 35 students in a hostel. Due to admission of 7 new students the expenses of mess were increased by Rs. 42 per day while the average expenditure per head diminished by Re. 1. What was original expenditure of mess?
- 22) How many factors does 1600 have?
- 23) What least number must be added to 3000 to obtain a number exactly divisible by 19?
- 24) If a certain sum amounts to Rs. 108 in 2 years and to Rs. 112 in 3 years. Find principal and rate of interest.

- 25) A salesman's commission is 5% on all sales upto Rs. 10000 and 4% on all sales exceeding this. He remits Rs. 31100 to his company after deducting his commission. Find total sales.

Q.26 to Q.30: Questions based on cubes.

A cube of side 8 m has been painted red, blue and black on pairs of opposite faces. It is then cut into small cubes of each side 2 cm.

- 26) How many cubes have no faces painted?
a) 0 c) 8
b) 4 d) 12
- 27) How many cubes have only two faces painted?
a) 8 c) 20
b) 16 d) 24
- 28) How many cubes have three faces painted with different colours?
a) 0 c) 8
b) 4 d) 12
- 29) How many cubes have two faces painted red, black and all other faces unpainted?
a) 4 c) 16
b) 8 d) 32
- 30) How many cubes have only one face painted red and all other faces unpainted?
a) 4 c) 12
b) 8 d) 16
- 31) If CRICKET is coded as DQJ BL DU, what is code for FOOTBALL?
a) GPPUCBMM c) GNPCSZMKB
b) GNPCSBKM d) GNPCSMK
- 32) If ROSE is coded as 7621 and STAR is coded as 2357, what will be the code for ROASTED?
a) 7652418 c) 7652138
b) 7652312 d) 7652319
- 33) The code for ORAGNE is 3 and code for BLACK is 4. Find code for PINK.
a) 1 c) 3
b) 2 d) 4
- 34) If TIGER is coded as 69 and LION as 60, then what is code for LEOPARD?
a) 65 c) 79
b) 81 d) 73
- 35) Find the next term.
B, D, G, I, L, N, ?
a) O c) S
b) Q d) U
- 36) Find the next term.
D, F, I, M, R, ?
a) S c) T
b) U d) X

- 37) 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 c) 7 km West
b) 5 km North – East d) 7 km East
- 38) A puts his time piece on table in such a way that at 6 PM hour hand points to North. In which direction the minute hand will point at 9:15 PM?
- a) South – east c) North
b) South d) West
- 39) Ashish said to Himani, “Your only brother’s son is my wife’s brother”. How is Himani related to wife of Ashish?
- a) Sister c) Mother
b) Aunt d) Daughter
- 40) Introducing a boy a girl said “He is the son of daughter of father of my uncle”. How is boy related to girl?
- a) Brother c) Cousin
b) Nephew d) Data inadequate
- 41) Find next term.
B2E, D5H, F12K, H27N, ?
- a) I58Q c) J58P
b) J57Q d) J58Q
- Q.42 to Q.45
- Find the one which is different from the rest **THREE**.
- 42) a) GJL c) SVX
b) MPS d) LOQ
- 43) a) GIK c) YAC
b) LNP d) SUV
- 44) a) SUTR c) UWYA
b) TVXZ d) WYCA
- 45) a) WXY c) HGF
b) PON d) EDC
- 46) Pointing to a photograph Ankit said “She is daughter of grand father’s only son”. How is Ankit related to girl in photograph?
- 47) Veena who is sister in law of Ashok, is daughter in law of Kalyani. Dheeraj is father of Sudeep who is the only brother of Ashok. How is Kalyani related to Ashok?
- 48) A person goes 30 km west. Then he takes a right turn and goes another 40 km. then he turns left and goes 66 km. Find his final position with respect to starting point.
- 49) A man travels 12 km West, the 3 km South and then 8 km East. How far is he from starting point?
- 50) Find next term in 2, 6, 21, 88, 445, ?

SECTION – II

- Q.1 a) Give words with the root word 'phobia'. [02]
b) Give words with the root word 'spent'. [02]
c) Give words with the root word, 'Ambi'. [02]
- Q.2 **The following sentences are divided into four parts. Identify the part that has an error.** [10]
- a) He is a / boy whom / I know / is dependable / no error
(1) (2) (3) (4) (5)
- b) Though she appears/ to be very tall /, she is first an / inch taller than me
(1) (2) (3) (4)
/ no error.
(5)
- c) To Radha and her / the movie / seemed very silly / no error.
(1) (2) (3) (4)
- d) The bus's / seats are / very uncomfortable / no error.
(1) (2) (3) (4)
- e) The advices of / elder people / are to be followed / no error.
(1) (2) (3) (4)
- f) Bob and myself / are responsible / for the situation / no error.
(1) (2) (3) (4)
- g) Mahesh and me / have been friends / for many years / no error.
(1) (2) (3) (4)
- h) Naturally, you can / invite whoever / you want / no error.
(1) (2) (3) (4)
- i) Each person in / the room turned / their head to the
(1) (2) (3)
/ front when the teacher entered / no error.
(4) (5)
- j) He had watched / birds fly by / throwing themselves / into the air / no error.
(1) (2) (3) (4) (5)

Q.3 Explain the method of 'Association' used for vocabulary building in the mnemonic GRASP. [02]

Q.4 Give examples of suffixes and prefixes for word formation. [02]

SECTION – III

Soft Skills:

- Q.1 Explain the mnemonic 'Mental PICTURE' used in effective Telephone conversation. [04]
- Q.2 What are effective methods for handling criticism ? [04]
- Q.3 Explain the differences between constructive and destructive criticism with examples. [04]
- Q.4 Explain the role of voice inflection and courtesy in telephonic conversation. [04]
- Q.5 **Using the following phrases, write an email to your final year project guide explaining the delay in the project submission.** [04]

Submission date – foreign books – schedule – 10th June – laptop Crash – Delay in printing – overall status – 9 sharp – approve the extension – shortage of money.

P.T.O.

SECTION – IV

Q.1 Choose the correct phrasal verbs from the given options for the following [10] sentences:

- a) The measure was passed without opposition.
(put up with / put through / put out)
- b) He has wandered about the world a great deal.
(knocked down / knocked about/ knocked up)
- c) The Piano occupies too much room.
(takes after / takes in / takes up)
- d) In Bombay there is no free library worth mentioning.
(speak out / speak of / speak for)
- e) He tried to evade me with promises.
(put on/ put away / put me off)
- f) He immediately took steps towards organizing the department.
(set about / set off/ set up)
- g) A few boys were confined after school hours.
(kept up / kept in / kept on)
- h) The poor woman has suffered much.
(go through / gone through / held up)
- i) The subject is postponed till the next meeting.
(held up / held out / held over)
- j) She continued talking.
(keep up / kept on / kept going on)

Q.2 Give tactful responses during a telephonic conversation for the following: [05]

- a) "You will have to wait".
- b) "He doesn't want to be distributed".
- c) "He hasn't come in yet".
- d) "I don't know where is".
- e) "She is busy".

Q.3 Give the meaning of the phrasal verbs below and make sentences: [05]

- a) Come about
- b) Call in
- c) Brought up
- d) Cast off
- e) Set Forth

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