

**B.Tech. SEM -V (Chemical/ Civil/ Electrical/ Mechanical/ Production/
Computer/ Info. Tech./ Electronics / Bio Medical / E & TC) 2014
Course (CBCS) : SUMMER - 2019**

SUBJECT : PROFESSIONAL SKILL DEVELOPMENT – V

Day : Thursday
Date : 16/05/2019

S-2019-2647

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.
- 3) Answers to all the sections should be written in **SAME** answer book.

SECTION – I

(QUANTITATIVE APTITUDE AND LOGICAL REASONING)

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

- a) A sum of money fetches Rs.408 as compound at the rate of 4 % per annum at the end of two years. What is the sum?
- b) Vaibhav sold an article for Rs. 1840 and made 15% profit on the discounted price he bought. If the discount was 20 %. What was the original price?
- c) A train running at a speed of 60 km/h crosses a platform double its length in 32.4 seconds. What is the length of the platform?
- d) 18 women can complete a work in 12 days and 12 men can complete the same work in 9 days. In how many days will 8 men and 8 women complete that work?
- e) The diameter of a wheel is 49 m. How many revolutions will it make to cover a distance of 3200 m?

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

- a) In an examination, a student scores 6 marks for every correct answer and loses 4 marks for every wrong answer. If he attempted 80 questions and obtained 310 marks. How many questions did he attempt corrected?
- b) A man can row 10.2 km downstream in 18 min. If the speed of the stream is 3.5 km/h. How much time (in hrs) he would take to cover 121.5 km upstream?
- c) Two pipes can full a tank in 10 hrs and 16 hrs respectively. A third pipe can empty the tank in 32 hrs. If all the three pipes function simultaneously. Then in how much time the tank will be full? (in hrs)
- d) 56 workers can finish a piece of work in 14 days. If the work is to be completed in 8 days. Then how many extra workers are required?
- e) A 210 m long train takes 6 seconds to cross a man running at 9 km/hrs in a direction opposite to that of the train. What is the speed of the train? (in km/hrs)

Q. 3 Solve the following questions: **(10)**

(Q. No. a to Q. No. e) In each question below are three statements followed by two conclusions 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.

P. T. O.

Give answer:

- 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 conclusions follow.

- a) Statements: Some shirts are pants
All pants are clothes
Some clothes are napkins
Conclusions: I) Some napkins are definitely not shirts
II) All clothes are shirts
- b) Statements: All packets are tents
All tents are houses
Some boxes are houses
Conclusions: I) All houses being packets is a possibility
II) Some boxes are tents
- c) Statements: Some nuts are bolt
Some bolts are hammers
All hammers are nails
Conclusions: I) At least some nails are nuts
II) No nail is nut
- d) Statements: All windows are doors
No door is mountain
Some mountains are roads
Conclusions: I) Some roads are definitely windows
II) All roads are doors
- e) Statements: Some phone are bangles
Some bangles are rings
All phones are sticks
Conclusions: I) All rings are not phones
II) All sticks are bangles

Q. 4 Directions (Q. No. i to Q. No. v) study the following table carefully and (10) answer the question given below:

Number of Marks obtained by five students in five subjects in an examination
(Total marks in all the five subject are 200)

Subject →	English	Maths	History	Geography	Science
Student ↓					
A	115	180	120	90	140
B	170	105	150	135	100
C	102	108	132	110	90
D	98	106	162	148	120
E	163	125	136	124	115

- i) The total marks obtained by B in English and History together were approximately what percentage of marks obtained by E in English?
- ii) Marks obtained by C in History were approximately what percentage of marks obtained by A in Geography?
- iii) Who among them secured heights total marks in English History and Geography?
- iv) If the minimum pass percentage is 50 in each subject to be declared pass in the examination, how many of them failed in the examination?
- v) Who among them secured highest total percentage of marks?

- Q. 5 Solve the following questions: (10)
- i) If '+' means '-'; × means '÷', ÷ means '+' and - means '×' than what is the value of $252 \times 9 - 5 + 32 \div 92$?
 - ii) 5, 39, 272, 1631, ---- ?
 - iii) 768, 192, 48, 12, ---?
 - iv) SHOE : NCJZ :: REWA : --- ?
 - v) AC, EG, IK, MO, ---?

SECTION - II
(VERBAL ABILITY AND ENGLISH GRAMMAR)

- Q. 6 A) Out of the given alternatives, choose the correct one word substitution: (10)
- i) Extreme enthusiasm for a specific cause.
 - a) Zeal
 - b) Genocide
 - c) Virtue
 - d) Moral
 - ii) A person having enjoyment in cruel, in human acts.
 - a) Pessimist
 - b) Butcher
 - c) Sadist
 - d) Linguist
 - iii) That which cannot be read.
 - a) Illegible
 - b) Illegitimate
 - c) Illiterate
 - d) Intelligible
 - iv) That which is worth of easy understanding.
 - a) Legible
 - b) Contagions
 - c) Imminent
 - d) Intelligible
 - v) That which is likely to happen in near future.
 - a) Anticipated
 - b) Initial
 - c) Intended
 - d) Imminent
 - vi) The state of being without wife.
 - a) Bigamy
 - b) Polyandry
 - c) Celibacy
 - d) Monogamy
 - vii) One who hates mankind?
 - a) Neurotic
 - b) Philanthropist
 - c) Misanthropist
 - d) Callous
 - viii) One who believes easily
 - a) Sedulous
 - b) Credible
 - c) Credulous
 - d) Creditable
 - ix) Round about way of saying
 - a) Circumvention
 - b) Circumspection
 - c) Circumlocution
 - d) Circumcision
 - x) That which cannot be conquered.
 - a) Inviolable
 - b) Invincible
 - c) Ineffable
 - d) Indelible

- B) Find out the group which contains error and rewrite the correct sentence. (05)
- i) The / mob / have gathered / together.
(a) (b) (c) (d)
 - ii) I / have / secured / passing marks.
(a) (b) (c) (d)
 - iii) His / handwriting / is / eligible.
(a) (b) (c) (d)
 - iv) I / do not / like / vegetable.
(a) (b) (c) (d)
 - v) He has / requested to me / to attend a party.
(a) (b) (c)
- C) Choose proper prepositions from the four alternatives given: (05)
- i) You should not discriminate _____ either of your two sons.
a) in b) with c) over d) for
 - ii) Man is always obsessed _____ the fear of death.
a) for b) of c) at d) by
 - iii) He left _____ home yesterday.
a) for b) to c) at d) out
 - iv) He talked _____ the better part of an hour.
a) for b) over c) to d) about
 - v) We cannot look _____ the new education policy as a panacea to all social ills.
a) after b) for c) upon d) into

SECTION – III
(ENGLISH COMMUNICATION AND SOFT SKILLS)

- Q. 7 Every manager has to learn to delegate well. Describe a work situation in which you delegated your responsibility successfully. Then tell about a time when your delegated responsibility did not work out well. How did you handle both situations? (10)
- Q. 8 Answer the following questions:
- a) Explain at least five important group discussion behaviours that will create a positive impression. (05)
 - b) What steps one should take to anticipate risks and resolve issues? (05)
 - c) “Management to be effective depends more than on educational qualification”. State your ideas in detail. (05)
 - d) What business etiquettes should be followed while interacting with the seniors/ supervisors of the company? (05)

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