

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

**SUBJEC: PROFESSIONAL SKILL DEVELOPMENT- V**

**Day: Saturday**  
**Date: 26/05/2018**

**S-2018-2327**

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

**SECTION-I**

**(Quantitates Aptitude and Reasoning)**

- Q.1** A can do a piece of work in 4 hours; B and C together can do it in 3 hours, while A and C together can do in 2 hours. How long will B alone take to do it? **(02)**
- Q.2** A works twice as fast as B, If B can complete a work in 12 days independently. The number of days in which A and B can to gather finish the work is? **(02)**
- Q.3** A is 30% more efficient than B. How much time will they working together to complete a job which a lone A could have done in 23 days? **(02)**
- Q.4** A circular running path is 1452 m in circumference. Two men start from the same point and walk in opposite direction at the rate of 7.5 km/hr and 9 km/hr respectively. When will they meet for first time? **(02)**
- Q.5** Two guns were fired from the same place at an interval of 12 minutes. A person approaching the firing place in his car hears the second shot 11 minutes after the first. If the speed of sound is 330 m/s. Find the speed of the car? **(02)**
- Q.6** A man rides at the rate of 18 km/hr but stops for 6 minutes to change horses the end of every 7<sup>th</sup> km. The time that he will take to cover a distances of 90 km is? **(02)**
- Q.7** A monkey climbs 20m in a minute and steps down 6m in next minute. How much time he will reach up to a 60m high pole in the way? **(02)**
- Q.8** A sum of money Rs. 10200 is invested in 2 schemes 1<sup>st</sup> scheme has offered compound interest at the rate 10% for 2years and 2<sup>nd</sup> scheme has offered simple interest at the rate of 5% per annum for 6 years. From both scheme equal interest is obtained. Find the sum invested at simple interest. **(02)**
- Q.9** The compound interest occurred on an amount at the end of two years at the rate of 12% per annum is Rs. 2862 what is the amount invested? **(02)**
- Q.10** Dhoni invests two equal amounts in two banks giving 10% and 12% rate of interest respectively. At the end of the year, the interest earned is Rs. 1650/- find the sum invested in each bank. **(02)**

Each of the questions below consists a question and two statements numbered I and II given below it you have to decide whether the data provided in the statements are sufficient to answer the questions. Read the both the statements and answer the following.

- 1) If statement I alone is sufficient to answer the question.
- 2) If statement II alone is sufficient to answer the question.
- 3) If statement I and II are together are needed to answer the question.
- 4) If statement I or II alone is sufficient to answer the question.
- 5) If statement I and II together are not sufficient to answer the questions.

P.T.O.

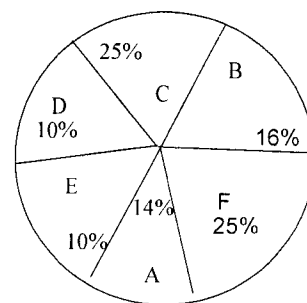
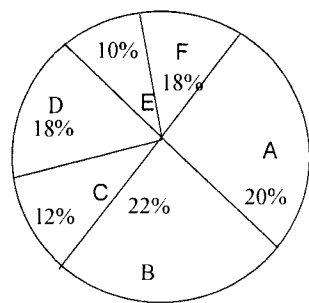
- Q.11** Is the time in the clock 3'o clock now? (02)  
**i)** After 15 minutes the minute and the hour hands of the clock will make a straight line.  
**ii)** The tram which is running late by exactly three hours from its scheduled time of arrival i.e.11 a.m. has reached now.
- Q.12** Is this college Co-educational? (02)  
**i)** There are more female teachers than male teachers in this college.  
**ii)** A girl known to me was the topper from this college.
- Q.13** On which day of the week is Priya definitely travelling? (02)  
**i)** Anita correctly remembers that Priya is travelling after Tuesday but before Saturday.  
**ii)** Priya does not travel on Friday.
- Q.14** What is a length of train? (02)  
**i)** It crosses a pole in 20 seconds.  
**ii)** Speed of the tram is 20m/s.
- Q.15** Area of rectangle is equal to the area of a right angled triangle. What is the length and width of the rectangle? (02)  
**i)** Height of triangle is 25cm.  
**ii)** Base of triangle is 12 cm.

Read the following pie chart carefully and answer the following questions.  
 Distribution of total voters from six different cities and the distribution of female voters among these cities.

Total number of voters = 64,000

Ratio of males and females = 5:3

percentage distribution of female voters



- Q.16** The number of male voters in city F is approximately what percent of the total number of voters in the same city? (approx.) (02)  
**i)** 48      **ii)** 44      **iii)** 53      **iv)** 57      **v)** 40
- Q.17** What is the average number of female voters in city A, B and E together? (02)  
**i)** 4200    **ii)** 2300    **iii)** 3200    **iv)** 2400    **v)** none of these
- Q.18** The number of male voters in city C is what percent of the number of male voters in city D? (approx.) (02)  
**i)** 25      **ii)** 48      **iii)** 38      **iv)** 34      **v)** 18
- Q.19** The number of female voters in city D is what percent of the male voters in city A? (approx.) (02)  
**i)** 20      **ii)** 25      **iii)** 28      **iv)** 33      **v)** 37
- Q.20** In which cities, the ratio between the female voters is 7:8? (02)  
**i)** B and C      **ii)** A and B      **iii)** A and C  
**iv)** C and D      **v)** none of these

In each question given below, three statements are followed by two conclusions number I and II you have to take the three statements to be true. Read the conclusions and decide which logically does follow.

- 1) If conclusion I does follow.
- 2) If conclusion II does follow.
- 3) If either conclusion I or II does follow.
- 4) If conclusion I and II do follow.
- 5) None of these.

- Q.21** Statement: **a)** All A are B. **b)** All B are C (02)  
Conclusion: **i)** Some A are C **ii)** Some A can be C
- Q.22** Statement: **a)** No A is B **b)** No B is C (02)  
Conclusion: **i)** Some A are C **ii)** Some A can be C
- Q.23** Statement : **a)** Some A are not B **b)** Some B are not C (02)  
Conclusion: **i)** Some A are B **ii)** Some A can be B
- Q.24** Statement : **a)** Some A are C **b)** Some A can be C (02)  
Conclusion: **i)** Some A are C **ii)** Some A can be C
- Q.25** Statement : **a)** Some A are B **b)** No B is C (02)  
Conclusion: **i)** Some A are C **ii)** Some A can be C

**SECTION-II**  
(Verbal Ability)

- Q.26** Find out the meaning of the following words and compose a paragraph? (10)  
**i)** Assassination **ii)** Genocide **iii)** Abstemious **iv)** Slacken **v)** Contradicts  
**vi)** Humility **vii)** Vicious **viii)** Grandeur **ix)** Philogynists **x)** Displeasure

**SECTION-III**  
(English Grammar)

- Q.27** A grammatically wrong sentence is written. You have to point out the part where the error lies and rewrite the sentence? (10)
- 1) It is natural in every man to wish about a distinction.
  - 2) My self Sunita Rao and an architect met for barnstorming at 5.p.m.
  - 3) I went into the market to buy stationaries and machinery.
  - 4) The earth move round the sun in an elliptical orbit.
  - 5) The title of the talk in How to be an achiever and not to loose sight of your responsibilities.
  - 6) My friends tell me that I speak fluent.
  - 7) Washerman very carefully renders service to the community.
  - 8) Built on 230 acres the palace of Udaipur is one of the showplaces of Rajasthan.
  - 9) Adopted by the favor Leigh family, high society was entered by Angela.
  - 10) A quarrel can be made by taking two.

**SECTION-IV**  
(Soft Skills)

- Q.28** Does case study an effective weapon to search out the information regarding the issues pertaining to our lives? What are the technical aspects are needed to follow in case study? (10)
- Q.29** **a)** How does 80/20 principle of Pareto make you understand regarding time management in corporate world? (05)
- b)** What do you mean by problem solving skill and how it helps in corporate world to bring growth? (05)
- c)** Communication skills is one of the major aspects of group discussion. Justify with suitable examples? (05)
- d)** How will you handle the interruption at the work place? (05)

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