

Total No. of Printed Pages—12

**HS/XII/V/CT/Paper-VI/23**

**2 0 2 3**

**COMPUTER TECHNIQUE**

( Vocational Stream )

**( Computer Commercial Application )**

**( Theory )**

Paper : VI

*Full Marks : 100*

*Time : 3 hours*

*The figures in the margin indicate full marks for the questions*

GROUP—A

**( Introduction to Statistical Techniques )**

**1.** Select the correct answer for each of the following : 1×5=5

(a) The standard error (SE) for a given sample of standard deviation of value 3 and sample size of value 25 is

(i) 0.5

(ii) 0.6

(iii) 0.7

( 2 )

(b) The variance of population, whose standard deviation is 2.33, is

(i) 5.43

(ii) 6.43

(iii) 7.43

(c) The correlation coefficient of 0.35 between two variables is considered as

(i) negative relationship between the two variables

(ii) positive relationship between the two variables

(iii) neutral relationship between the two variables

(d) In a least square method of curve fitting the best fit curve of a given type is the curve that has the

(i) minimal sum of deviations

(ii) medium sum of deviations

(iii) maximum sum of deviations

(e) If mean deviation is given as 51 and median as 58, then the coefficient of mean deviation is calculated as

(i) 0.85

(ii) 0.88

(iii) 0.91

( 3 )

2. Fill in the blanks of the following sentences : 1×5=5

- (a) In a step deviation method, to find the mean of group data, the formula is given as

$$\bar{x} = a + h \left( \frac{\sum f_i u_i}{\sum f_i} \right)$$

where  $a$  is assumed mean,  $\sum f_i$  is total frequency,  $u_i = \frac{x_i - a}{h}$  and  $h$  is \_\_\_\_\_.

- (b) If  $\bar{x}$  is the mean and  $\sigma^2$  is the variance, then the variance of  $n$  observations  $x_1, x_2, \dots, x_n$  is given by the formula \_\_\_\_\_.
- (c) The square root of a variance is called as \_\_\_\_\_.
- (d) The regression line shows the relation between the dependent  $y$  variable and the independent \_\_\_\_\_ when there is a linear pattern.
- (e) In the formula of straight line  $y = mx + b$ ,  $m$  value is known as the \_\_\_\_\_ of a straight line.

3. Define the following (any five) : 2×5=10

- (a) Standard error in dispersion
- (b) Harmonic mean
- (c) Geometric mean
- (d) Correlation coefficient
- (e) Mean deviation
- (f) Covariance

( 4 )

4. Solve any *two* of the following : 5×2=10

(a) Find the mean deviation about the median for the following data :

3, 9, 5, 3, 12, 10, 18, 4, 7, 19, 21

(b) Following are the given marks obtained and weights assigned to the subjects of a student. Calculate weighted arithmetic mean (AM) :

<i>Subjects</i>	<i>Marks</i>	<i>Weight</i>
English	60	1
Physics	65	1
Chemistry	53	2
Mathematics	50	3
Computer	40	4

(c) From the following data, calculate the harmonic mean (HM) :

<i>Marks</i>	10	20	25	40	50
<i>No. of students</i>	20	30	50	15	5

GROUP—B

( **Simple Accounting** )

5. Select the correct answer for each of the following : 1×10=10

(a) Long-term assets without any physical existence but possessing a value are called

(i) fixed assets

(ii) intangible assets

(iii) current assets

(iv) investments

- (b) The assets that can easily be converted into cash within a short-period, i.e., one year or less are known as
- (i) intangible assets
  - (ii) investments
  - (iii) fixed assets
  - (iv) current assets
- (c) Copyrights, patents and trademarks are examples of
- (i) investments
  - (ii) fixed assets
  - (iii) current assets
  - (iv) intangible assets
- (d) The debts, which are to be repaid within a short period (one year or less), are referred to as
- (i) current liabilities
  - (ii) fixed liabilities
  - (iii) contingent liabilities
  - (iv) All of the above
- (e) Gross Profit is
- (i) Cost of Goods Sold + Opening Stock
  - (ii) Sales – Cost of Goods Sold
  - (iii) Sales – Purchases
  - (iv) Net Profit – Expenses

- (f) Net Profit is calculated in which of the following accounts?
- (i) Profit and Loss Account
  - (ii) Balance Sheet
  - (iii) Trial Balance
  - (iv) Trading Account
- (g) Supplier's Personal Accounts are seen in the
- (i) sales ledger
  - (ii) nominal ledger
  - (iii) purchase ledger
  - (iv) general ledger
- (h) Sales invoices are first entered in
- (i) cashbook
  - (ii) purchase journal
  - (iii) sales journal
  - (iv) sales account
- (i) If a Trial Balance totals do not agree, the difference must be entered in
- (i) Profit and Loss Account
  - (ii) Nominal Account
  - (iii) Capital Account
  - (iv) Suspense Account

( 7 )

(j) If it is required to maintain fixed capitals, then the partner's shares of profit must be

(i) credited to Capital Account

(ii) debited to Capital Account

(iii) debited to Partner's Current Account

(iv) credited to Partner's Current Account

6. Fill in the blanks of the following sentences : 1×5=5

(a) Goods withdrawn for personal use is called as \_\_\_\_\_.

(b) A person, to whom money is owed by a firm against purchase of goods, is known as \_\_\_\_\_.

(c) The amount invested by the proprietor in a business is termed as \_\_\_\_\_.

(d) \_\_\_\_\_ are persons and/or other entities who owe to a business an amount for buying goods and service on credit.

(e) \_\_\_\_\_ are obligation or debts that an enterprise has to pay in the future.

7. Define any *five* in 1 or 2 sentence(s) each : 1×5=5

(a) Credit transaction

(b) Fixed assets

(c) Revenue

(d) Income

(e) Voucher

(f) Invoice

8. Write on any *five* of the following : 2×5=10

- (a) Assets and Liabilities
- (b) Expenses and Losses
- (c) Credit Note and Debit Note
- (d) Ledger and Journal
- (e) Trial Balance and Balance Sheet
- (f) Double Entry System of Accounting

9. Journalize the following transactions in the books of Mr. Gupta as on October, 2020 : 10

<i>Days</i>	<i>Transactions</i>
3	Bankatlal informs Gupta that Navnath's acceptance of ₹ 16,000 endorsed to him dishonoured and noting charges paid ₹ 200.
9	Vishwanath's acceptance for 120 days of ₹ 15,500 dated 24th Sept., 2018 deposited into bank for collections.
11	Gupta sold goods to Kartik for ₹ 4,500 and received own acceptance from him, which was given to Milind of ₹ 4,500 and due payment on this date.
20	Recovered 40% of the amount due to the private estate of Jyoti who declared as insolvent, against bill accepted by her for ₹ 6,000 which was dishonoured on 29th Sept., 2018.
21	Gupta renews his acceptance of ₹ 7,500 to Pandurang by paying cheque of ₹ 3,500 and accepting new bill for 2 months for the balance plus interest at 18% p.a.

GROUP—C

( Marketing and Salesmanship )

10. Select the correct answer for each of the following :

1×10=10

- (a) Which of the following business enterprises does not have a separate legal entity?
- (i) Sole proprietorship
  - (ii) Partnership
  - (iii) Company
  - (iv) Cooperative society
- (b) The company which does not invite the public to subscribe to its share capital is
- (i) both private and public companies
  - (ii) public company
  - (iii) private company
  - (iv) None of the above
- (c) A prospectus is issued by
- (i) public company
  - (ii) private company
  - (iii) statutory corporation
  - (iv) departmental store

(d) Which of the following is not a feature of joint stock company?

(i) Artificial person

(ii) Separate legal entity

(iii) Formation

(iv) Lack of business continuity

(e) Which of the following does not characterize business activity?

(i) Production of goods and services

(ii) Presence of risk

(iii) Sale or exchange of goods and services

(iv) Salary and wages

(f) Which of the following promotional tools is thought to be the most expensive to use?

(i) Advertising

(ii) Personal selling

(iii) Public relation

(iv) Sales promotion

- (g) The promotion tool that may include coupons, contests, premiums and other means of attracting consumer attention is best described as
- (i) advertising
  - (ii) personal selling
  - (iii) public relations
  - (iv) sales promotion
- (h) The promotional tool that the marketing person tends to underuse or use only as an after-thought is
- (i) advertising
  - (ii) personal selling
  - (iii) public relation
  - (iv) sales promotion
- (i) Communicate the high value of services over the competition is part of
- (i) communication
  - (ii) influence and persuasion
  - (iii) negotiation
  - (iv) prioritising and goal setting
- (j) Department stores are example of
- (i) wholesaling
  - (ii) retailing
  - (iii) franchising
  - (iv) buying organization

( 12 )

11. Write short notes on any *four* of the following :  $2\frac{1}{2}\times 4=10$

- (a) Marketing mix
- (b) Service business
- (c) Online business
- (d) Associate business
- (e) Product distribution

12. What are the different types of business organization?  
Briefly explain each. 5

13. What are the different types of salesman? Briefly explain  
each of them. 5

*Or*

Write about digital marketing.

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