PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BCom DEGREE EXAMINATION MAY 2023
(Sixth Semester)

Branch – COMMERCE (COST AND MANAGEMENT ACCOUNTING)

MANAGEMENT INFORMATION SYSTEM

Time: Three Hours   Maximum: 75 Marks

SECTION-A (10 Marks)
Answer ALL questions
ALL questions carry EQUAL marks   (10 x 1 = 10)

1   Which is the fact that are properly arranged, classified and organized
    (i) Data   (ii) Events
    (iii) Statements   (iv) Information

2   Management information system receives input from the
    (i) EIS   (ii) ES   (iii) DSS   (iv) TPS

3   Information systems that monitor the elementary activities and transitions of
    the organizations are
    (i) Management level system   (ii) Operational level system
    (iii) Knowledge level system   (iv) Strategic level system

4   Which system keeps a track on the daily regular business transactions of the
    organisation?
    (i) Management level   (i) Strategic level
    (iii) Executive information   (iv) Operational level

5   Projections and responses to queries are information output characteristics
    associated with
    (i) Decision Support System   (ii) Management Information System
    (iii) Executive Support System   (iv) Transaction Processing System

6   Which component plays a decision rule for the computer?
    (i) Program   (ii) Statements
    (iii) Input data   (iv) Conditions

7   System Development process is also called as
    (i) System Development Life Cycle   (ii) System Life Cycle
    (iii) System Process Cycle   (iv) Both a and b

8   The first step in the systems development life cycle is
    (i) Analysis   (ii) Design
    (iii) Problem / opportunity identification (iv) Development and Documentation

9   Which of these items is a major component of today's IT infrastructure?
    (i) Data Management Technology   (ii) Networking
    (iii) Technology Service   (iv) All of the above

10 Elements of control will consists of
    (i)   Authority, direction and management
    (ii) Authority, direction and information
    (iii) Authority, application and management
    (iv) Authority, application and information

SECTION - B (35 Marks)
Answer ALL Questions
ALL Questions Carry EQUAL Marks (5 x 7 = 35)

11. a   What is MIS? What are the goals of MIS?

OR

    b   How useful is the information in this competitive world.

12. a   Elaborate on the characteristics of quality information.

OR

    b   Discuss about the communication channel and its characteristics.

13. a   Write a brief note on database structure.

OR

    b   What is the need for decision support system?

14. a   Explain in detail about the strategies for requirement determination.

OR

    b   Write a brief note on detailed system design.

15. a   How is system maintenance important?

OR

    b   How can the information system be protected?

SECTION - C (30 Marks)
Answer any THREE Questions
ALL Questions Carry EQUAL Marks (3 x 10 = 30)

16   Discuss about the classification of MIS.

17   Briefly explain about the different kinds of system.

18   Explain about the data models.

19   Describe the phases of the system Development Life Cycle (SDLC).

20   Discuss in brief about the implementation process.

Z-Z-Z   END

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BCom DEGREE EXAMINATION MAY 2023
(Sixth Semester)

Branch – COMMERCE (COST & MANAGEMENT ACCOUNTING)

<u>CORPORATE LAWS</u>

Time: Three Hours   Maximum: 75 Marks

<u>SECTION-A (10 Marks)</u>
Answer ALL questions
ALL questions carry EQUAL marks   (10 x 1 = 10)

1. The RBI performs the supervisory function under the guidance of the _____.
    (i)   Department of Economic Affairs   (ii) Ministry of Finance
    (iii) Board for Financial Supervision (BFS)   (iv) IFMs

2. Power of RBI to control advances by banking companies is provided in section
    _____ of the Banking Regulation Act 1949.
    (i) Section 24   (ii) Section 22   (iii) Section 21   (iv) Section 23

3. Section 25 of the Securities Contracts Regulation Act 1956 deals with ____.
    (i)   Penalty for failure by any person to enter into an agreement with clients
    (ii) Certain offenses to be cagnizable
    (iii) Settlement of administrative and civil proceedings
    (iv) Act not to apply in certain cases

4. Which of the following is a function of SEBI?
    (i)   Conduct audits and inquiries of stock exchanges
    (ii) Supervise the process of taking over a company
    (iii) Control the working of merchant brokers and stockbrokers.
    (iv) All of the above.

5. Section 29 of the Competition Act, 2003 deals with _____.
    (i)   Power ti issue interim orders
    (ii) Procedure for investigation of combinations
    (iii) Inquiry into combination by commission
    (iv) Rectification of orders

6. MRTP Act was passed in
    (i) 1970   (ii) 1969   (iii) 1968   (iv) 1971

7. In which year, the Foreign Exchange Management Act (FEMA) was enacted to
    replace the Foreign Exchange Regulation Act (FERA)?
    (i) 1988   (ii) 1999   (iii) 2014   (iv) 1992

8. According to FEMA, foreign exchange does not include
    (i)   Deposits payable in any foreign currency
    (ii) Bills of exchange drawn in Indian currency but payable in any foreign
          currency
    (iii) Travellers cheques drawn by institutions outside India but payable in Indian
          Currency.
    (iv) Drafts drawn by banks outside India and payable in foreign currency.

9. Which of the following is not prescribed in the provision of prevention of Money
    Laundering Act, 2002?
    (i) Seizure of property   (ii) Attachment of property
    (iii) Confiscation of property   (iv) Life Imprisonment

10. Which of the following is the predecessor of the IRDA Act 1999?
    (i) The Insurance Act 1938
    (ii) The Life Insurance Corporation Act 1956
    (iii) The Marine Insurance Act, 1963
    (iv) The Public Liability Insurance Act 1991

SECTION - B (35 Marks)
Answer ALL Questions
ALL Questions Carry EQUAL Marks   (5 x 7 = 35)

11. (a) State the importance of Banking Regulations Act.

    OR

    (b) Explain the banker's role in lending loans and advances to their customers.

12. (a) Give the functions of Corporatization and Demutualisation Clearing Corporation.

    OR

    (b) Explain the eligibility Norms for issue of new securities.

13. (a) "An anti-competitive agreement is having appreciable adverse effect on competition"- Discuss.

    OR

    (b) Compare the MRTP Act with Competition Act.

14. (a) Explain the main features of FEMA.

    OR

    (b) Compare the Current Account Transactions with Capital Account Transactions.

15. (a) Bring out the objectives of Money Laundering Act.

    OR

    (b) Write a note on the appointment and removal of Authority according to IRDA Act.

SECTION - C (30 Marks)
Answer any THREE Questions
ALL Questions Carry EQUAL Marks   (3 x 10 = 30)

16. Discuss about the functions of banking companies.

17. Enumerate the Objectives of Securities Contract Act 1956.

18. Analyse the powers and duties of Competition Commission of India.

19. Discuss about the Export procedure.

20. Enumerate the Functions of IRDA.

Z-Z-Z   END

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BCom DEGREE EXAMINATION MAY 2023
(Sixth Semester)

Branch – COMMERCE (COST & MANAGEMENT ACCOUNTING)

STRATEGIC MANAGEMENT

Time: Three Hours   Maximum: 75 Marks

SECTION-A (10 Marks)
Answer ALL questions
ALL questions carry EQUAL marks   (10 x 1 = 10)

1. Which of the following is not a major element of the strategic management process?
    (i) Formulating strategy   (ii) Implementing strategy
    (iii) Evaluation strategy   (iv) Assigning administrative tasks.

2. Stages of strategy formulation techniques does not include
    (i) Formulation framework   (ii) Matching stage
    (iii) External factor evaluation   (iv) Decision stage

3. Competitive advantage can best be described as
    (i) Increased efficiency   (ii) what sets an organisation apat
    (iii) A strength of the organisation (iv) Intangible resources.

4. The fundamental purpose for the existence of any organisation is described by its
    (i) Policies   (ii) Mission   (iii) Procedures   (iv) Strategy

5. Which is not a barrier in implementing organisation strategy?
    (i) People barrier   (ii) Resource barrier (iii) Time barrier   (iv) Vision barrier

6. Strategic Planning is the art of formulating business strategies, implementing them, and evaluating their impact based on
    (i) Organizational objectives   (ii) Strategic Plan
    (iii) Market Environment   (iv) Financial outcomes

7. In circumstances of incremental change, strategic change is likely to be more successful if:
    (i) It is imposed
    (ii) It is owned by the senior manager
    (iii) It is internalized and owned by those who will implement it
    (iv) It is facilitated by management consultants

8. In terms of organizational change, "maintenance of the status quo" represents
    (i) Stability   (ii) Opposition   (iii) Instability   (iv) Contradiction

9. The central purpose of   strategic evaluation?
    (i) Evaluate effectiveness of strategy to achieve organizational objectives.
    (ii) Evaluate effectiveness of control system to measure achievements.
    (iii) Evaluate effectiveness of strategies to be implemented efficiently
    (iv) Evaluate effectiveness of the strategy implementation process.

10. Strategy evaluation at the _____ levels involves using specific performance measures qualitative and quantitative for each functional area.
    (i) Organizational   (ii) Operational   (iii) Functional   (iv) Production

SECTION - B (35 Marks)
Answer ALL Questions
ALL Questions Carry EQUAL Marks   (5 x 7 = 35)

11. (a) Write a note on Business Policy Education.
(OR)
(b) Explain the benefits of Strategic Management.

12. (a) Discuss is the need for Organizational Objectives.
(OR)
(b) Write a note on Environmental analysis.

13. (a) What are the factors that support strategy implementation?
(OR)
(b) Give the importance of strategic leadership.

14. (a) What are the causes for organizational change?
(OR)
(b) How can an organization cope with resistance to change?

15. (a) Explain the nature and importance of Strategic Evaluation.
(OR)
(b) Give the different types of strategic control.

SECTION - C (30 Marks)
Answer any THREE Questions
ALL Questions Carry EQUAL Marks   (3 x 10 = 30)

16. Discuss the Strategic Management Process.

17. Enumerate the types of competitive advantages.

18. Discuss about any two models in strategic formulation.

19. Point out some of the challenges in innovation.

20. "Strategy is a circular process of constant iteration and evolution, A good strategy should never really 'end'" - Discuss.

Z-Z-Z   END

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BCom DEGREE EXAMINATION MAY 2023
(Sixth Semester)

Branch – COMMERCE (COST & MANAGEMENT ACCOUNTING)

SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT

Time: Three Hours   Maximum: 75 Marks

SECTION-A (10 Marks)
Answer ALL questions
ALL questions carry EQUAL marks   (10 x 1 = 10)

1. Speculator is a person
    (i)   Who evaluates the performance of the company
    (ii) Who uses his own funds only
    (iii) Who is willing to take high for high return
    (iv) Who considers hearsays and market behaviours

2. Investment is the
    (i)   Net additions made to the nation's capital stocks
    (ii) Person's commitment to buy a flat or a house
    (iii) Employment of funds on assets to earn returns
    (iv) Employment of funds on goods and services that are used in production process.

3. Equity shareholders rights are listed below. One of the right is incorrect, find it
    (i)   Right to have first claim in the case of winding of the company
    (ii) Right to vote at the general body meeting of the company
    (iii) Right to share profits in the form of the dividends
    (iv) Right to receive a copy of the statutory report

4. Zero coupon bonds has its origin in_____.
    (i)   US security market   (ii) Wall street
    (iii) Japan's security market   (iv) Dalal street

5. Diversification reduces
    (i)   Interest rate risk   (ii) Market risk
    (iii) Unique risk   (iv) Inflation risk

6. IPO stands for:
    (i)   Internal Public Office   (ii) Initial Public Office
    (iii) Initial Public Offer   (iv) Internal Police Office

7. A group of security is known as:
    (i) Investment   (ii) Portfolio   (iii) Security   (iv) Gambling

8. Risk due to internal environment of a firm or those affecting particular industry are referred to as _____.
    (i)   Unsystematic risk   (ii) Systematic risk
    (iii) Normal risk   (iv) Abnormal risk

9. The Dow Theory was developed by _____.
    (i)   Stock broker by the name of Dow
    (ii) An editor of Wall Street Journal by the name of Dow
    (iii) It was developed by Markowitz and Dow
    (iv) It was developed by Sharpe

10. _____ step involves determing periodically how the portfolio has performed over some time period.
    (i) portfolio construction
    (ii) portfolio control
    (iii) portfolio management
    (iv) portfolio performance evaluation

SECTION - B (35 Marks)
Answer ALL Questions
ALL Questions Carry EQUAL Marks   (5 x 7 = 35)

11. (a) Illustrate the difference between Investment and Speculation.
    OR
    (b) Why do investors prefer to have diversified portfolio? Explain.

12. (a) Explain the different types of preference shares.
    OR
    (b) Explain the benefits of investing in real asset compare to financial asset.

13. (a) "A risk-averse' investor does not assume risk". Do you agree? Explain.
    OR
    (b) Explain the forecasting techniques used under economic analysis.

14. (a) Elucidate the Capital Asset Pricing Model.
    OR
    (b) Distinguish traditional versus modern portfolio analysis.

15. (a) Explain the significance of 'Beta' in an individual's portfolio.
    OR
    (b) Discuss the concept of Risk Adjusted Rate of Return.

SECTION - C (30 Marks)
Answer any THREE Questions
ALL Questions Carry EQUAL Marks   (3 x 10 = 30)

16. Discuss the different channels available to an investor for making investments.

17. Discuss the different types of shares.

18. Systematic risk cannot be controlled but unsystematic risk can be reduced.' Justify

19. Explain the procedures in reduction of portfolio risk.

20. Elaborate constant rupee value plan.

Z-Z-Z   END

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BCom DEGREE EXAMINATION MAY 2023
(Sixth Semester)

Branch – COMMERCE(COST AND MANAGEMENT ACCOUNTING)

DISCIPLINE SPECIFIC ELECTIVE –II
PROJECT MANAGEMENT

Time: Three Hours   Maximum: 75 Marks

SECTION-A (10 Marks)
Answer ALL questions
ALL questions carry EQUAL marks   (10 x 1 = 10)

1   Which of the following is not a project management goal?
(i)   Avoiding customer complaints
(ii) Keeping overall costs within budget
(iii) Delivering the software to the customer at the agreed time
(iv) Maintaining a happy and well-functioning development team

2   The process each manager follows during the life of a project is known as
(i)   Project management   (ii)   Manager life cycle
(iii) Project management life cycle   (iv)   All of the mentioned

3   The scope of project planning includes the identification of key areas from the client through _____.
(i)   Meetings   (ii) Discussion
(iii) Interviews   (iv) All of the above

4   The social analysis consists of _____.
(i)   Measurement of the distribution of the income due to the project
(ii) Identification of the impact on the objectives of the basic needs of the society.
(iii) Both (i) and (ii)   (iv) Neither (i) nor (ii)

5   External sources of finance do not include:
(i)   Leasing   (ii) Debentures
(iii) Retained earnings   (iv) Overdrafts

6   Project appraisal by financial institution takes into consideration.
(i) Promoter's capacity and competence (ii) Project
(iii) Economic aspects   (iv) All of the above

7   We need to monitor each project as such a make a program to manage them as a group to take the ___ and be prepared to manage diversity is called ___.
(i)   All are valid   (ii) Disadvantages, P3M
(iii) Advantages, P3M   (iv) Advantages, P2M

8   Which of the following is not considered as a risk in project management?
(i)   Specification delays   (ii) Product competition
(iii) Testing   (iv) Staff turnover

9   The project manager conducts the analysis of the problem & submits the report to the _____.
(i)   Top management   (ii) Lower management
(iii) Middle management   (iv) All of the above

10   The Staff performance has to be evaluated _____.
    (i)   Marketing phase   (ii) Design phase
    (iii) testing phase   (iv) Post-completion analysis phase

SECTION - B (35 Marks)
Answer ALL Questions
ALL Questions Carry EQUAL Marks   (5 x 7 = 35)

11   a   What is Project management? Give its characterizes.
                OR
   b   Discuss the essentials of project management philosophy.

12   a   What are the generation of ideas for ideas preliminary screening?
                OR
   b   Explain the rationale for Social Cost-Benefit Analysis.

13   a   What are the methods of evaluation of financial feasibility?
                OR
   b   Explain the benefits of financing infrastructure projects.

14   a   Explain the importance of project cost monitoring.
                OR
   b   Classify the productivity budgeting techniques.

15   a   How to conduct a various steps to project review?
                OR
   b   List out the performance indicators of project evaluation.

SECTION - C (30 Marks)
Answer any THREE Questions
ALL Questions Carry EQUAL Marks   (3 x 10 = 30)

16   List out the principles of project management.

17   Explain the various types of projects.

18   Describe the steps involved in project financing.

19   Elaborate the process of Risk management.

20   Briefly explain the project reporting techniques.

Z-Z-Z   END

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BCom DEGREE EXAMINATION MAY 2023
(Fourth Semester)

Branch- COMMERCE (COST AND MANAGEMENT ACCOUNTING)

INDUSTRIAL LAW

Time: Three Hours   Maximum: 50 Marks

SECTION-A
Answer ALL questions
ALL questions carry EQUAL marks   (5 x 1 = 5)

1. The first Factories Act in India was passes in _____.
    (i)   1881   (ii) 1891
    (iii) 1911   (iv) 1922

2. _____ is deemed to include also the cash value of any food concession allowed to the employee.
    (i)   Retaining allowance   (ii) Pension fund
    (iii) Superannuation   (iv) Dearness allowance

3. ESIC is now implementing an IT roll out plan named _____.
    (i)   Project Rashtriya   (ii) Project Swasthya
    (iii) Project Panchdeep   (iv) Project Bima Yojaya

4. The payment of gratuity act came into force on _____.
    (i)   16th August, 1972   (ii) 16th September, 1972
    (iii) 16th October, 1972   (iv) 16th November, 1972

5. 'Adult' means a person who has completed his ___ year of age.
    (i)   15th   (ii) 16th
    (iii) 17th   (iv) 18th

SECTION - B
Answer ALL Questions
ALL Questions Carry EQUAL Marks   (5 x 3 = 15)

6. a. Bring out the provisions regarding welfare of worker?
                        (OR)
   b. Describe the powers of inspectors under factories act, 1948.

7. a. Summarise the various scheme establishment of employees' pension fund.
                        (OR)
   b. State the meaning of i) Basic wages ii) Exempted employee iii) Tribunal.

8. a. Outline the rules regarding contribution under the Employees State Insurance Act, 1948.
                        (OR)
   b. How is the amount of compensation payable to an injured employee calculated under the Employees' Compensation Act 1952?

9. a. Explain about the payment and forfeiture of gratuity and exemption.
                        (OR)
   b. Describe the objects of the Payment of Bonus Act, 1965

10. a. Summarise the rules regarding the Payment of Wages Act, 1936.
                        (OR)
    b. Explain the composition of such Minimum rate Wages Act, 1948?

SECTION - C

Answer **ALL** Questions

ALL Questions Carry **EQUAL** Marks   (5 x 6 = 30)

11. a. Discuss about the provisions ensures the health of the workers.

(OR)

 b. Elucidate the provisions regarding safety of the worker.

12. a. Justify the Employees' Provident Fund Scheme.

(OR)

 b. Examine the Employees' Deposit Linked Insurance Scheme.

13. a. Point out the different types of benefits provided by the Employees' State Insurance Act, 1948?

(OR)

 b. Enumerate rules regarding the distribution of compensation under Workmen's Compensation Act, 1923?

14. a. Infer the rules relating to nomination under Payment of Gratuity Act, 1972.

(OR)

 b. Analyse the employees to whom the Payment of Bonus Act is not applicable.

15. a. Classify the various kinds of deductions from Payment of Wages Act, 1936.

(OR)

 b. Discuss the procedure for fixing and revising of Minimum Wages Act, 1948.

Z-Z-Z END

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BCom DEGREE EXAMINATION MAY 2023
(Second Semester)

Branch –COMMERCE (COST AND MANAGEMENT ACCOUNTING)
FUNDAMENTALS OF ECONOMICS AND MANAGEMENT

Time: Three Hours   Maximum: 50 Marks

SECTION-A (5 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** marks   (5 x 1 = 5)

1. The law of demand is measured from the perspective of_____
   (i) Consumer   (ii) Shopkeeper
   (iii) Wholesaler   (iv) Manufacturer

2. The law of variable proportions come into being when_____
   (i) Two variable factors   (ii) Fixed factor and variable factor
   (iii) All factors are variable   (iv) Variable factors yield less

3. A typical commercial banks provide_____
   (i) Long term loans   (ii) Medium-term loans
   (iii) Short term loans   (iv) Debtor and creditor

4. _____ is pervasive function.
   (i) Planning   (ii) Divisional planning
   (iii) Departmental planning   (iv) Single use planning

5. _____ of the following is not an internal motivational force.
   (i) Goals   (ii) Needs
   (iii) Attitudes   (iv) Feedback

SECTION - B (15 Marks)
Answer **ALL** Questions
ALL Questions Carry **EQUAL** Marks   (5 x 3 = 15 Marks)

6. a Describe the factors determinants of demand.
                    OR
   b Prepare the short note on law of demand.

7. a Explain the factors of production function.
                    OR
   b Outline the law of variable proportions.

8. a Narrate the principles of banking.
                    OR
   b Analyze the measures of credit control.

9. a Explain the importance of planning in a business concern.
                    OR
   b How is the formal authority structure of a business organization designed?

10. a Develop the qualities of a leader.
                    OR
    b Compare between "X", "Y" and "z" theories.

Cont...

SECTION -C (30 Marks)
Answer any **Three** questions
ALL questions carry **EQUAL** Marks   (3 x 10 = 30)

11.   Discuss about the elasticity of demand.

12 .   Classify the concept of costs.

13 .   Highlight role and functions of money market in India.

14 .   Point out the important methods of communication..

15 .   Examine the need for decision-making in a business undertaking.

<p align="center">Z-Z-Z</p>

END

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BCom DEGREE EXAMINATION MAY 2023
(First Semester)

Branch – COMMERCE (COST & MANAGEMENT ACCOUNTING)

BUSINESS MATHEMATICS AND STATISTICS

Time: Three Hours   Maximum: 50 Marks

SECTION-A (5 Marks)
Answer **ALL** questions

ALL questions carry **EQUAL** marks   (5 x 1 = 5)

1. Find the 9th term of the series 5,10,20,...
   (i) 45   (ii) 1280   (iii) 80   (iv) 2560

2. Statistics can be considered as
   (i) an art   (ii) a science   (iii) both an art and science   (iv) neither an art nor a science

3. Second quartile is nothing but
   (i) mode   (ii) mean   (iii) median   (iv) variance

4. Coefficient of correlation lies between
   (i) 0 and 1   (ii) −1 and 0   (iii) −1.5 and 1.5   (iv) −1 and 1

5. What is the probability of getting three heads in three tosses of a coin?
   (i) $\frac{1}{8}$ (ii) $\frac{1}{2}$ (iii) $\frac{1}{4}$ (iv) $\frac{3}{8}$

SECTION – B (5 × 3 = 15 Marks)
Answer **ALL** questions

ALL questions carry **EQUAL** marks

6. (a) Solve $6x^2 - 17x + 12 = 0$.

      (OR)

   (b) Calculate (i) $11P_2$ (ii) $11C_2$ (iii) $11P_0$ and (iv) $11C_0$.

7. (a) Classify between graphs and diagrams.

      (OR)

   (b) The frequency distribution of marks in Mathematics obtained by 100 students in a class is given below:

Marks :	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99
No of students :	7	11	24	32	9	14	2	1

   Sketch a histogram and frequency polygon for the above data.

8. (a) State the merits and demertis of mean and median.

      (OR)

   (b) Calcualte (i) range (ii) coefficient of range (ii) quartile deviation and (iv) coefficient of quartile deviation.
   Price (Rs.) 10 12 13 16 11 12 13 10 15 19

9. (a) Calculate the coefficient of correlation, $N = 9$, $\sum X = 225$, $\sum Y = 314$, $\sum XY = 7767$, $\sum X^2 = 5685$ and $\sum Y^2 = 11080$.

(OR)

(b) State the properties of regression lines and coefficients.

10. (a) If $P(A) = 0.50$, $P(B) = 0.50$ and $P(A \cup B) = 0.70$, calcualte $P(A \cap B)$.

(OR)

(b) Explain Mutually exclusive events with example.

SECTION – C (5 × 6 = 30 Marks)
Answer ALL questions
ALL questions carry EQUAL marks

11. (a) Calculate the simple and compound interest for Rs. 2500 for 4 years at 8 percentage per annum.

(OR)

(b) If $A = \{0, 1, 3, 4, 6, 7, 9, 10\}$, $B = 2, 3, 4, 5, 6$ and $C = \{4, 5, 6, 7, 8, 9\}$, show that $(i)A - (B \cup C) = (A - B) \cap (A - C)$ and $(ii)A - (B \cap C) = (A - B) \cup (A - C)$.

12. (a) Summarise the uses of statisitcs in business.

(OR)

(b) Represent the following data by a pie diagram

Item :	Food	Clothing	Rent	Education	Fuel	Miscellaneous	Savings
Value(Amount in Rs.):	60	40	30	20	10	20	20

13. (a) Calculate mean, median and mode for the following data

Mid values :	0-10	10-20	20-30	30-40	40-50
Frequency:	14	24	38	20	4

(OR)

(b) From the following data find standard deviation

X :	10	20	30	40	50	60
f :	8	12	20	10	7	3

14. (a) Marks obtained by 8 students in Accountancy (X) and Statistics (Y) are given below. Calculate the rank correlation.

X :	15	20	28	12	40	60	20	80
Y :	40	30	50	30	20	10	30	60

(OR)

(b) Differentiate regression and correlation coefficients.

15. (a) A manufacturing firm produces pipes in two plants, I and II with daily production of 1500 and 2000 pipes respectively. The fraction of defective pipes produced by the two plants are 0.006 and 0.008 respectively. If a pipe selected at random from the day's production is found to be defective, What is the probability that it has come from plant I, plant II?

(OR)

(b) In a sample of 500 workers of a factory, the mean wage and SD of wages are found to be Rs. 500 and Rs. 48 respectively. Find the probability of workers having wages (i) more than Rs. 600 (ii) less than Rs. 450 (iii) between Rs. 548 and Rs. 600.

Z-Z-Z END