19ECO301   Reg No   :   ....

Duration:3 Hours   Max Marks:120

I. Answer any FOUR of the following :   **(4×5= 20 Marks)**

1. Write a note on role of money in a Capitalist Economy.

2. Write a note on Overdraft.

3. Write a note on Balance sheet of a commercial bank.

4. Write a note on Open Market Operations.

5. Write a note on Deflation.

II. Answer any FOUR of the following :   **(4×10= 40 Marks)**

6. Briefly explain the various forms of money.

7. Explain the various steps involved in the construction of index numbers.

8. Explain the concept of Online Banking.

9. Briefly explain the functions of Central Bank.

10. Briefly explain the cash balance version of the quantity theory of money.

III. Answer any THREE of the following :   **(3×20= 60 Marks)**

11. Define Inflation. Explain the causes and effects of Inflation.

12. What is Money? Explain its Functions.

13. Explain the Investment policy of a Commercial Bank.

14. Summarise the credit control measures by RBI.

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CHOICE BASED CREDIT SYSTEM SEMESTER SCHEME

B.A./B.Sc. THIRD SEMESTER DEGREE EXAMINATION NOVEMBER/DECEMBER 2023

ECONOMICS

Micro Economics

Duration:2 Hours   **Max Marks:60**

Section - A

I. Answer any TWO of the following :   **2×5= 10**

1. Write a short note on interaction of demand and supply.

2. Write a short note on Pigou's concept of welfare.

3. Write a short note on Cobb-Douglas production function.

4. Write a short note on net and gross profit.

Section - B

II. Answer any TWO of the following :   **2×10=20**

5. Define Micro economics. Explain its importance.

6. Briefly explain the Law of Diminishing Diminishing Marginal Utility.

7. Explain the Basic problems of an economy.

8. Briefly explain the features of perfect competition.

Section - C

III. Answer any TWO of the following :   **2×15= 30**

9. Define law of demand. Explain its exceptions.

10. Describe the Indifference Analysis with the help of an illustration.

11. Explain the Law of returns to scale.

12. Explain the objectives and components of Fiscal policy.

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21ECOC302

CHOICE BASED CREDIT SYSTEM SEMESTER SCHEME
B.A/B.Sc. THIRD SEMESTER DEGREE EXAMINATION NOVEMBER/DECEMBER 2023
ECONOMICS
Mathematical Economics

Duration:2 Hours   **Max Marks:60**

Section - A

I. Answer any TWO of the following :   **2×5= 10**

1. Write a note on types of numbers.

2. Write a note on Cost function.

3. Find the maximum and minimum value of the function.
   $y = x^3 - 12x + 12$

4. Write a note on basic theories of Limits.

Section - B

II. Answer any TWO of the following :   **2×10=20**

5. Given three sets P, Q and R such that:
   P = {x : x is a natural number between 10 and 16},
   Q = {y : y is a even number between 8 and 20} and
   R = {7, 9, 11, 14, 18, 20}
   (i) Find the difference of two sets P and Q
   (ii) Find Q - R
   (iii) Find R - P
   (iv) Find Q – P

6. Examine the property of commutative in multiplication for the following matrices:
   $$A = \begin{matrix} 1 & -2 & 3 \\ -4 & 2 & 5 \end{matrix} \qquad B = \begin{matrix} 2 & 3 \\ 4 & 5 \\ 2 & 1 \end{matrix}$$

7. Find dy/dx of the following functions:
   1. $y = 3x^2 + 4$
   2. $y = x(x^2 + 3)$
   3. $y = 10x^4 + 7x^3 + 15x^2 + x + 20$
   4. $y = 5/x^2 + 4 + 9x^2 - 1/x^3$

8. Define functions. Differentiate between linear and non - linear functions.

Section - C

III. Answer any TWO of the following :   **2×15= 30**

9. Define Mathematical Economics. Explain the scope and importance of mathematical economics.

10. Solve the following system of equations by Cramer's rule:
$$9x_1 + x_2 = 13$$
$$8x_1 + 2x_2 = 16$$

11. If the demand and supply functions for a certain commodity are

    $D = 120 - 5p$

    $S = -30 + 10p$

    a. Determine the equilibrium values of price and quantity.

    b. If the government gives a subsidy per unit of $ 3, calculate the new equilibrium price and quantity.

    c. Calculate the amount spent by government on subsidy.

    d. Calculate the revenue received by the firms – before and after subsidy.

    e. Calculate consumer expenditure before and after the subsidy.

12. Explain the market equilibrium with the example of equations.

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22ANMC301   Reg No   :   ....

Duration:2 Hours   **Max Marks:60**

PART A

Answer any FIVE questions: (5×2= 10)

1) Name two common application of audio recording.

2) List the methods used for cave painting.

3) Give an example of a situation where corner pin tracking is useful.

4) Which softwares are commonly used for video editing in the post-production phase?

5) What is color correction?

6) How is animation helpful in marketing?

PART B

Answer any FIVE questions :   (5×6= 30)

7) Briefly explain any 6 principles of video editing.

8) Explain the role of mask and its different types.

9) List the post-production techniques to stabilize a shoot.

10) Explain traditional animation.

11. Define squash and stretch & follow through and overlapping.

12. Explain the common mechanism used in many Speakers.

PART C

Answer any TWO questions :   (2×10= 20)

13. Explain in detail the various properties and characteristics of sound.

14. Explain Thaumatrope and phenakisticope.

15. Write a note on Tittling along with its techniques.

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21HISE31

CHOICE BASED CREDIT SYSTEM SEMESTER SCHEME

B.A. THIRD SEMESTER DEGREE EXAMINATION NOVEMBER/DECEMBER 2023

HISTORY

Introduction to Epigraphy

Duration:2 Hours   **Max Marks:60**

Section-A

Answer any TWO of the following :   **2×5= 10**

1. Why are epigraphic documents considered the most reliable in studying history?

2. What are palm leaves inscriptions?

3. What is the purpose of Estampage of inscription?

Section-B

Answer any TWO of the following :   **2×10= 20**

4. Examine the South Indian Inscriptions.

5. Examine the significance of land grants and its features.

6. Describe the Hathigumpha inscription of Kharavela.

Section-C

Answer any TWO of the following :   **2×15= 30**

7. Evaluate the role played by James Princep in the Discipherment of Indian scripts.

8. Examine the Uttaramerur inscription with special reference to the village administration of the Cholas.

9. The Aihole inscription is one of the finest pieces of Sanskrit poetry'. Validate this statement.

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21JMCE31   Reg No   :   ....

CHOICE BASED CREDIT SYSTEM SEMESTER SCHEME

B.Sc./B.Com./BBA/BCA THIRD SEMESTER DEGREE EXAMINATION

NOVEMBER/DECEMBER 2023

JOURNALISM

Feature Writing and Freelancing

Duration:2 Hours   **Max Marks:60**

Section- A

Answer any FIVE of the following: 5×10= 50

1. What are the major sources of feature article writing?

2. What are the different types of feature writing? Explain.

3. What are the trends which have evovled in freelancing?

4. Comment on the scope of freelancing as a profession in India and abroad.

5. What are the qualities of a freelancer?

6. What is the importance of fact checking and background checking while writing the feature article?

Section- B

Answer any TWO of the following: 2×5= 10

7. Prominence of feature article writing in upbringing the culture.

8. Theatre Review.

9. What is freelancing? Who is a freelancer?

10. Careers in freelance writing in India.

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CHOICE BASED CREDIT SYSTEM SEMESTER SCHEME

B Sc/BCA THIRD SEMESTER DEGREE EXAMINATION

NOVEMBER/DECEMBER 2023

Organizational Behaviour

Duration:2 Hours   **Max Marks:60**

Section-A

Answer any TWO of the following :   2×5= 10

1. State the challenges faced by organisations in fostering a positive organisational behaviour.

2. Write a brief note on sustaining organisation culture.

3. What is meant by individual and group level change in an organisation.

Section-B

Answer any TWO of the following :   2×10= 20

4. 'Collegial model is an extension of supportive model'. In the light of this statement explain both the models and their similarities.

5. Narrate the types of organisation culture.

6. Narrate the individual resistance that occurs with the changes in an organiation.

Section-C

Answer any TWO of the following :   2×15= 30

7. Explain the nature of OB and its usefulness to an organisation.

8. Explain the functions of Organisation Culture and its usefulness in the organisation.

9. What is meant by Organisational Change? Explain the strategies that are used to overcome the resistance to change.

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CHOICE BASED CREDIT SYSTEM SEMESTER SCHEME

B.A./B.Sc. THIRD SEMESTER DEGREE EXAMINATION NOVEMBER/DECEMBER 2023

PSYCHOLOGY

Child Development

Duration:2 Hours   **Max Marks:60**

Answer any THREE of the following :   **(3×2= 06)**

1. Define Child Development.

2. What is meant by Cross Sectional Design?

3. Mention two Prenatal Diagnostic Choices.

4. What is meant by Grammar?

5. What is Cephalocaudal trend?

Answer any FOUR of the following in not more than a page each :   **(4×6= 24)**

6. Briefly explain Periods of Development.

7. Define Teratogens and explain how they influence the Prenatal Development.

8. Write a note on Chromosomal Abnormalities.

9. Write a note Piaget's theory of Cognitive Development.

10. Write a note on Self Conscious Emotions and Emotional Self Regulation.

11. What role does Peer Group play in the Emotional Development of the child?

Answer any THREE of the following in not more than two page each :   **(3×10= 30)**

12. Explain Ecological theory.

13. Why is the Embryonic and Fetal Stage consider as important in the development of the fetus?

14. Explain the Reflexes with relevant illustrations.

15. Describe the Development of Attachment in a child with suitable examples.

16. Explain Oppositional Defiant Disorder (ODD).

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21PHYE31

CHOICE BASED CREDIT SYSTEM SEMESTER SCHEME
BA/B.Com./BBATHIRD SEMESTER DEGREE EXAMINATION
NOVEMBER/DECEMBER 2023
PHYSICS
Medical physics

Duration:2 Hours   **Max Marks:60**

PART A

Answer any 5 questions. Each question Carries 3 marks: 5×3= 15

1 Draw a labeled diagram of mouth.

2 Mention any three functions of Human skeleton.

3 What are X rays?

4 Explain Mammography.

5 What is dose constrain?

6 Mention any three aims of personal monitoring.

PART B

Answer any 5 questions. Each question Carries 9 marks: 5×9= 45

7 Explain in detail the process of production of Image in human eye.

8 Explain in detail about nature of sound. How does the human ear function?

9 How Ultrasound imaging is used in medical field? Explain.

10 Explain in detail Magnetic resonance imaging (MRI). How MRI technology is used in medical field?

11 What are the genetic effects of radiation? Explain.

12 What are the steps to reduce radiation to patients, staff and public?

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CHOICE BASED CREDIT SYSTEM SEMESTER SCHEME
BA/B.Sc./B.Com./BBA/BCA THIRD SEMESTER DEGREE EXAMINATION
NOVEMBER/DECEMBER 2023
COMPUTER ANIMATION
Photography

Duration:2 Hours   **Max Marks:60**

PART A

Answer any FIVE questions: (5×2= 10)

1) What is the hot shoe on a camera used for, and what can be attached to it?

2) Explain Low angle shoot briefly.

3) What is polaroid camera?

4) How does a prism separate white light into its constituent colors?

5) Mention two different types of camera shutters.

6) What is Golden Hour in photography?

PART B

Answer any FIVE questions :   (5×6= 30)

7) Explain the comparisons and differences between Human Eye and Camera Lens.

8) Explain Reflection in Photography.

9) Focal Plane Shutter and In-Between the Lens Shutter importance of lenses in photography.

10) Explain few key aspects of photography.

11) What is split lighting photography? Why is it used for?

12) Briefly explain; Street Photography, Sports Photography & Food Photography.

PART C

Answer any TWO questions :   (2×10= 20)

13) What are the various types of Camera modes?

14) How does speed of light play a significant role in photography?

15) Write a note on pinhole camera and its common uses.

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22NHEE31   Reg No   :   ....

NUTRITION AND HEALTH EDUCATION

Food Adulteration

Duration:2 Hours   **Max Marks:60**

SECTION - A

Answer the following strictly observing the internal choice provided: 4×5=20

UNIT 1

1) Explain in detail on intentional adulteration.

OR

2) How can the food additives be considered as adulterant?

UNIT 2

3) How can you detect adulterants present in fruits and vegetables?

OR

4) Write in detail about the ways to detect physical, chemical and biological adulteratant in food

UNIT 3

5) Write a note on AGMARK.

OR

6) Mention the role of Quality control officer in a laboratory.

UNIT 4

7) What is the importance of FSSAI licensing?

OR

8) Write on the Food Safety and Standards Act.

Answer the following strictly observing the internal choice provided: 4×10=40

UNIT 1

9) What are the consequences of consuming adulterated food?

OR

10) a) Describe physical hazards that can compromise food safety.

b) Explain how can you prevent contamination by physical hazard

UNIT 2

11) Explain in detail about the means of adulteration.

OR

12) Give test to detect adulterants in different spices and condiments and cereals.

UNIT 3

13) Write in detail about COPRA 2019. Add a note on their salient feature and their need for implementation.

OR

14) Write a note on   i) Meat Product Order   ii) Milk and Milk Product Order

UNIT 4

15) Write in detail about FSSAI. Add a note on their rules and salient features.

OR

16) Explain about the rights provided by the FSSAI to the local authorities against defaulter.

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Reg No   :   ....

CHOICE BASED CREDIT SYSTEM SEMESTER SCHEME
B.Sc./B.Com./B.B.A./B.C.A THIRD SEMESTER DEGREE EXAMINATION
NOVEMBER/DECEMBER 2023
ECONOMICS
Economics of Insurance

Duration:2 Hours   **Max Marks:60**

Section - A

I. Answer any TWO of the following :   2×5= 10

1. Write a note on types of Retirement.

2. Write a note on Micro Health Insurance in India.

3. Write a note on Principle of Proximate Cause.

4. Write a note on Principle of Utmost good faith.

Section - B

II. Answer any TWO of the following :   2×10=20

5. Differentiate between Risk Pooling and Risk Transfer.

6. Define Insurance Planning. Explain the benefits of Insurance planning.

7. Explain health insurance products with examples.

8. Explain Insurance regulation.

Section - C

III. Answer any TWO of the following :   2×15= 30

9. Explain the various classes of Insurance.

10. Define General Insurance. Explain the types of General Insurance.

11. Explain the objectives, role and need for IRDA in India.

12. Define Insurance. Explain the Scope and importance of Insurance.

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CHOICE BASED CREDIT SYSTEM SEMESTER SCHEME
B.Sc./B.Com/B.B.A./B.C.A. THIRD SEMESTER DEGREE EXAMINATION
NOVEMBER/DECEMBER 2023
PSYCHOLOGY
Psychology and Mental Health

Duration:2 Hours   **Max Marks:60**

Answer any THREE of the following :   (3×2= 06)

1. What is Psychology?

2. What is the difference between Normal and Abnormal Behaviour?

3. Mention any two ways to improve Mental Health.

4. Who conceptualized the A-B-C Model?

5. What is Bronfenbrenner Theory?

Answer any FOUR of the following in not more than a page each :   (4×6= 24)

6. Briefly explain the the Concept of Normality and Abnormality.

7. Briefly explain Categorical and Prototypal Approaches in the Classification of Mental Illness.

8. Write a short note on the Early Signs of Psychological Disorder.

9. Write a note on Burnout.

10. Briefly explain Secondary and Tertiary Prevention.

11. Explain Anger Management.

Answer any THREE of the following in not more than two page each :   (3×10= 30)

12. Enumerate on the different Fields of Psychology.

13. Elaborate the Psychological and Biological Risk Factors of Mental Health.

14. Elaborate the Early Signs of Psychological Disorders.

15. Discuss the Cognitive Distortions.

16. Discuss Copng Skills with the help of examples.

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CHOICE BASED CREDIT SYSTEM SEMESTER SCHEME
B.A./B.Sc./B.Com./B.B.A THIRD SEMESTER DEGREE EXAMINATION
NOVEMBER/DECEMBER 2023
Digital Fluency

Duration:2 Hours   **Max Marks:60**

1. The origin of the word communication is _____

   a. Communicate   b. Communicare   c. Compute   d. Computer

2. Types of words used for verbal communication?

   a. Acronyms   b. Simple   c. Technical   d. Jargons

3. Which type of word is generally not used in verbal communication?

   a. Technical   b. Simple   c. Easy   d. Local Language

4. Which of the following is NOT a communication barrier?

   a. Linguistic barrier   b. Interpersonal barrier   c. Financial barrier d. Organisational barrier

5. Which of the following is a positive facial expression?

   a. Staring hard   b. Wrinkled forehead   c. Looking somewhere else

   d. Nodding while listening

6. . ... is the exchange of messages in the communication cycle.

   a. Transmitting   b. Listening   c. Message   d. Feedback

7. What is the first step to solving a problem?

   a. Generating alternatives   b. Defining the Problem c. Selecting alternatives

   d. Making a decision

8. Creative Problem Solving challenges a person to think beyond the conventional and to avoid well-trodden, sterile paths of thinking.

   a. True   b. False

9. A major obstacle to creative thinking is called "homeostasis". It means_____

   a. Fear Of Failure   b. Striving For Constancy   c. Fear of criticism   d. Lack of direction

10. Disruptive innovation is developed based on the:

   a. Future market needs   b. Current market needs   c. Niche market needs   d .None of these

11. Which of the following refers to knowing something without any kind of reasoning?

   a. Analytical thinking   b. Intuitive thinking   c. Rational thinking   d. None of these

12. Which of these is NOT an application of AI?

   a. Language Translation   b. Voice Recognition   c. Robotics

   d. Obtain massive training data sets

13. Which type of analytics ensures that the path is predicted for the future course of action?

   a. Predictive Analytics   b. Prescriptive Analytics   c. Diagnostic Analytics

   d. Both a and b

14. Statistics estimate the ever-growing world population to reach nearly:

   a.5 billion by the year 2050   b.15 billion by the year 2050   c.10 billion by the year 2050

   d. 20 billion by the year 2050.

15. Which of the following are examples of Weak AI?

   a. Siri, Alexa & Advanced Chess Programs   b. Siri & Alexa   c. Advanced Chess Programs

   d. None of these

16. Data _____ is used to ensure confidentiality.

   a. Encryption   b. Locking   c. Decryption   d. Backup

17. An attempt to harm, damage or cause threat to a system or network is broadly termed as

_____

   a. Cyber-crime   b. Cyber Attack   c. System hijacking   d. Digital crime

18. _____ is the practice and precautions taken to protect valuable information from unauthorized access, recording, disclosure or destruction.

   a. Network Security   b. Database Security   c. Information Security   d. Physical Security

19. Which of the following Machine Learning Algorithms is a learning method that interacts with its environment by producing actions and discovering errors or rewards?
   a. Supervised Learning   b. Semi Supervised Learning   c. Reinforcement Learning

   d. Unsupervised Learning

20. What are copies of the physical objects that are accurate enough to let their owners experiment and predict the operation of their assets called

   a. Digital Sons   b. Digital Siblings   c. Digital Twins   d. None of these

21. The network evaluates how good its prediction was through

   a. Cost function   b. Loss function   c. Bias parameters   d. Back propagation

22. Cloud Computing can store a tremendous amount of data which can also help:

   a. Big Data Analytics   b. Action Items   c. Cloud Networks   d. Benefit People

23. The easiest way for attackers to gain network access is to:

   a. Leverage existing vulnerabilities   b. Creating new vulnerabilities   c. Send Spam mails   d. Both a and b

24. Self-driving cars usually use Limited Memory technology to:

   a. Store data   b. Automate   c. Detect Motion   d. Detect Sound

25. Which of the following is not a Relational database management system (RDBMS)?

   a. Microsoft SQL   b. SQL   c. Oracle   d. Azure Cosmos

26. Which is the first stage in every IoT architecture?

   a. Sensors and actuators   b. Internet getaways and Data Acquisition Systems

   c. Edge IT   d. Data center and cloud

27. In Canada, credit union _____ is exploring the possibility of wealth management apps, displayed on car windscreens, for passengers to review their portfolios while being driven to their destination

   a. Redshore   b. Blueshore   c. Deepshore   d. Orangeshore

28.Who alongside the FDA recently launched a joint initiative to "increase coordination in dealing with threats related to medical devices?

   a. HHS   b. DHS   c. LHS   d. AHS

29. The full form of SEG is

   a. Secure Email Gateway   b. Secure Ecommerce Gateway   c. Security Email Gateway   d. Secure Email Gate

30. An example of PaaS is:

   a. Rackspace Cloud   b. Mosso   c. Amazon EC2   d. Gmail

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CREDIT BASED SEMESTER SCHEME
B.A./B.B.A./B.Com./B.C.A./B.Sc. THIRD SEMESTER DEGREE EXAMINATION
NOVEMBER/DECEMBER 2023
General French III

Duration:3 Hrs   **Max Marks:80**

I. *Répondez avec des phrases complètes en français :*   *(10 × 2 = 20)*

1. Ils (se réveiller) le matin (mettez au futur négatif) Je (faire) la dictée (Mettez au passé récent)

2. 1) Mme Vincent ..... la porte (Mettez le verbe « mettre » au passé composé
   2) Je mange .... (Utilisez un article partitif et un nom)

3. Répondez aux questions suivantes en quelques mots français :
   1. Allez-vous en vacances ? Où ?
   2. Qui est votre meilleur ami ? Pourquoi ?

4. La petite fille tient sa poupée (Mettez au passé composé au pluriel)

5. Je _____ les chambres. (Balayer, au présent)

6. A quelle heure dinez-vous ? Où prenez-vous vos repas ?

7. _____ agent-ci est maigre, _____ est gros (Adjectifs/Pronoms Démonstratifs)

8. Complétez avec un article partitif Ils mangent ..... avec ...... pour le petit-déjeuner A midi, nous buvons ....

9. Il a offert quelques places à ses amis (Remplacez par un pronom personel)

10. Elle est triste. (Donnez le contraire)

II. *Répondez avec des phrases complètes (any 4)*   *(4 × 5 = 20)*

11. IV Remplacez ou répondez par le pronom « en »
    1) A-t-il du sucre ?
    2) Voulez-vous des tomates ?
    3) Voit-il des carottes ?
    4) Nous voulons des chaises
    5) As-tu du travail ?

12. Mettez à l'impératif, première personne pluriel,
    a) à la forme affirmatif,
    b) à la forme négatif:
    1. Vendre les journaux
    2. Faire des devoirs
    3. Manger vite

4. Venir de la maison

5. Etre bon

13. Mettez les Pronoms Toniques:

    1. _____, ils mettent leurs valises.

    2. Parle-_____ (les filles).

    3. Marc est plus jeune que _____ (Jean).

    4. Le tableau est devant _____.

    5. Vous êtes chez _____ (ma maison).

14. Mettez les noms, les verbes et les adjectifs au pluriel :

    a) Je nettoie l'appartement.

    b) Il prend la chaise.

    c) L'étudiant appelle le chauffeur.

    d) Je me réveille à 9 h.

    e) Tu envoies la lettre.

15. Donnez le contraire :

    1. La malle est vide.

    2. Il est triste.

    3. La maison est à la gauche.

    4. Les tables sont longues.

    5. Les étudiants sont bons.

III. *Traduisez*   *(4 × 10 = 40)*

16. Traduisez en anglais :

    a) Elles entrent avec les enfants chez le marchand de volaille et de poisson.

    b) L'épicier fait l'addition et Mme Vincent paie a la caisse.

    c) Dans le magasin, il y des rayons pour les jouets.

    d) Le coiffeur tourne de lui, les ciseaux à la main.

    e) Ils traversent la cour carrée dont la porte donne sur le Marche aux Fleurs

17. Un Week-end des Vacances

18. Notre ami arrivera demain du Havre vers 20 heures. Je serai à la gare, je prendrai un ticket pour aller sur le quai. Le train entrera en gare et s'arrêtera. Mon ami descendra de son wagon. Nous nous serrerons la main. Puis, il donnera ses bagages à un porteur. Nous sortirons de la gare, je conduirai mon ami à son hôtel.

19. Traduisez en français

    1) Our friends enter the garden of Tuileries

    2) Madame Vincent is a little tired

    3) The bill please?

    4) Would you like some coffee?

    5) The library is full of French works

20. Décrivez votre maison

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21BOTE31   Reg No   :   ....

CHOICE BASED CREDIT SYSTEM SEMESTER SCHEME
B.A./B.B.A./B.Com./B.C.A.THIRD SEMESTER DEGREE EXAMINATION
NOVEMBER/DECEMBER 2023
BOTANY
Community Forestry

Duration:2 Hours   Max Marks:60

I. Answer any Five of the following :   (5×2= 10 Marks)

1. Mention four ecotourist places.

2. What is soil erosion?

3. What is eco-philosophy?

4. Define community forestry.

5. What is customary rights?

6. List the four pillars of food security.

7. Mention the role of CBO's in forest organization.

8. What is poverty?

II. Answer any FOUR of the following :   (4×5= 20 Marks)

9. Write a note on forest society.

10. What is eco-philosophy? Mention its principles.

11. What are the impacts of chipko movement?

12. Describe the Relationship between forests and people.

13. Write a note on ecotourism.

14. What is biodiversity? Explain their types.

15. Write a note on global climate change.

16. Write a note on seed bank.

III. Answer any THREE of the following : (3×10= 30 Marks)

17. Explain different methods of ex-situ conservation.

18. Mention the different threat categories of plants and add a note on Endemic plants of India.

19. What is sustainability Development? Describe the various sustainability practices followed for conservation.

20. Briefly explain the chipko movement for forest protection.

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21ZOOE31

CHOICE BASED CREDIT SYSTEM SEMESTER SCHEME

BA./B.Com./BBA/BCA THIRD SEMESTER DEGREE EXAMINATION

NOVEMBER/DECEMBER 2023

ZOOLOGY

Endocrinology

Duration:2 Hours   **Max Marks:60**

SECTION - A

Answer the following strictly observing the internal choice provided: 4×5=20

UNIT 1

1) Differenitate between the functions of endocrine glands and neurons.

OR

2) Explain hyper-prolactenemia. What are the symptoms caused due to increased production of oxytocin?

UNIT 2

3) Write a short note on the functions of the adrenal gland.

OR

4) What is hypothyroidism? Add a note on its symptoms.

UNIT 3

5) Explain the mechanisms involved in treating Hyperinsulinism.

OR

6) Write five functions of Glucagon.

UNIT 4

7) Write a note on long term effects of shift work.

OR

8) List any five functions of sleep.

SECTION - B

Answer the following strictly observing the internal choice provided: 4×10=40

UNIT 1

9) Pineal gland has a major role in sleep and wake up cycle. Explain.

OR

10) Write a note on hypothalamus as neuroendocrine organ. Explain the structure of hypothalamus.

UNIT 2

11) Give a detailed account of prostaglandins.

OR

12) Give a detailed account of parathyroid gland.

UNIT 3

13) Give an account of Gastrointestinal hormones.

OR

14) Explain the steps to be taken to control diabetes. Add a note on diet plan of diabetes.

UNIT 4

15) Explain Circardian Rhythm with examples.

OR

16) Describe the relation between SCN and Pineal gland with examples.

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21BBAE31   Reg No   :   ....

Social Media Marketing

Duration:2 Hours   **Max Marks:60**

SECTION A

Answer any TWO of the following: **(2×15= 30)**

1) What are the various concerns and complications involved in international E-marketing?

2) Briefly explain the best practices for engaging users in social media.

3) How to integrate a personal brand on twitter? Explain.

SECTION B

Answer any THREE of the following :   **(3×7= 21)**

4) Why social media engagement is so important?

5) Provide strategies for lead generation on Instagram.

6) What are the various forms of content that Twitter allows users to post?

7) How do you post content on youtube?

SECTION C

Answer any THREE of the following :   **(3×3= 9)**

8) What is social advertising?

9) What is facebook page?

10) What do you mean by posting content?

11) Give the meaning of Youtube.

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CHOICE BASED CREDIT SYSTEM SEMESTER SCHEME

B.A./B.B.A./B.Com.THIRD SEMESTER DEGREE EXAMINATION

NOVEMBER/DECEMBER 2023

MATHEMATICS

Quantitative Mathematics

Duration:2 Hours   **Max Marks:60**

PART - A

I. Answer any 8 questions . Each question carries 3 marks: **(3×8= 24 Marks)**

a. A company manufactures two prducts A and B. These products are processed in the same machine. It takes10 minutes to process one unit of product A and 2 minutes for each unit of product B and the machine operates for a maximum of 35 hours in a week. Product A requires 1 kg and B requires 0.5kg of raw material per unit, the supply of which is 600kg per week. Market constraint on the product B is known to be minimum of 800 units every week. Product A costs Rs.. 5 per unit and sold at Rs. 10. Product B costs Rs. 6 per unit and can be sold in the market at a unit price of Rs.8. Formulate the above as an LPP to maximize profit.

b. The standard weight of a special purpose brick is 5 kg and it contains two ingredients B_1 and B_2, B_1 costs Rs. 5 per kg and B_2 costs Rs. 8 per kg . Strength considerations dictate that the brick contains not more than 4 kg of B_1 and a minimum of 2 kg of B_2 since the demand for the product is likely to be related to the price of the block. Formulate the above problem as a LPP model.

c. Write the general form of LPP.

d. Convert the following unbalanced transportation problem into a balanced transportation problem.

1	5	8	35
9	4	2	40
20	20	20	

e. A company produces two types of leather belts A and B. A is a superior quality and B is of inferior quality. The respective profits are Rs. 10 and Rs. 5 per belt. The supply of raw material is sufficient for making 850 belts per day. For belt A, a special type of buckle is required and 500 pieces are available per day. There are 700 buckles available for belt B per day. Belt A needs twice as much time as that required for the belt B and the company can produce 500 belts if all of them were of the type A. Formulate a LPP model for the above problem.

f. One side of a rectangular field is 12m and one of its diagonals is 15m. Find the area of the field.

g. Find the cost of carpeting a room 12m long and 10m broad with a carpet 75cm wide at the rate of Rs.15.30 per square metre.

h. Find the area of a triangle whose sides measures 12 cm, 13 cm and 14 cm.

i. If a wire of 240 metres length is moulded in the form of a circle and a square turn by turn, find the ratio of the area of the circle to that of the square.

j. The diagonal of a cube is $8\sqrt{3}$ cm. Find its volume and surface area.

k. Find the volume and surface area of a sphere of radius 10.5 cm.

l. In two triangles, the ratio of the areas is 2:3 and the ratio of their heights is 3:2. Find the ratio of their bases.

PART - B

2. Answer any 2 questions. Each question carries 6 marks: (6×2= 12 Marks)

a. A company produces 2 types of hats A and B. Every hat A requires twice as much labour times as the second hat B. If the company produces only hat B then it can produce a total 500 hats per day. The market limits daily sales of hat A and B to 150 and 250 respectively. The profits on hat A and B are Rs. 8 and Rs. 5 respectively. Solve graphically to get the optimal solution.

b. Use graphical method to solve the LPP.

$$Minimize\ Z = 3x_1 + 2x_2$$

Subject to

$$5x_1 + x_2 \geq 10$$
$$x_1 + x_2 \geq 6$$
$$x_1 + 4x_2 \geq 12$$
$$x_1, x_2 \geq 0$$

c. State the transportation algorithm.

d. Solve the following transportation problem starting with initial solution obtained by VAM.

	D_1	D_2	D_3	D_4	Supply
O_1	2	2	2	1	3
O_2	10	8	5	4	7
O_3	7	6	6	8	5
Demand	4	3	4	4	15

PART - C

3. Answer any 2 questions. Each question carries 6 marks: (6×2= 12 Marks)

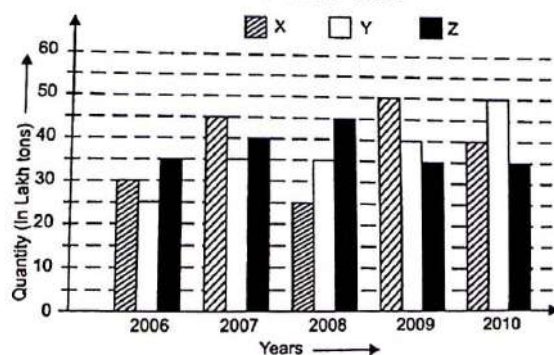a. Study the following table carefully and answer the questions that follow:

Number of Candidates (in lakhs) appearing in an entrance examination from Six different cities

City	A	B	C	D	E	F
Number of candidates	1.25	3.14	1.08	2.27	1.85	2.73

Ratio of candidates passing and failing within the city

City	Ratio of Passing and Failing
A	7 : 3
B	5 : 3
C	4 : 5
D	1 : 3
E	3 : 2
F	7 : 5

a. What is the ratio of the number of candidates failing the exam from city D to that of those failing the exam in city A.

b. The number of candidates appearing for the exam from city C is what percent of the number of candidates appearing for the exam from city B?

c. The number of candidates passing the examination from city F is what percent of the total number of candidates appearing from all the cities together?

d. Which city has the highest number of students failing the entrance exam?

e. What is the number of candidates passing the exam from city E?

b. The bar graph given below gives the data of the production of paper (in lakh tonnes) by three different companies X,Y and Z over last 5 years. Study the graph carefully and answer the questions that follow.
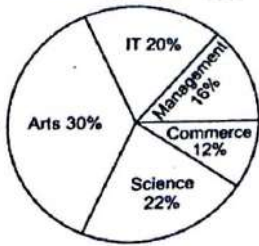

a. What is the difference between the production of company Z in 2008 and company Y in 2006?

b. What is the ratio of the average production of company X during the period 2008-2010 to the average production of company Y during the same period?

c. What is the percentage increase in the production of company Y from 2006 to 2009

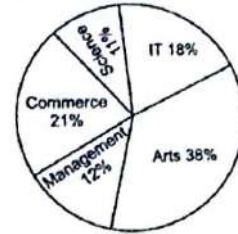d. The average production for 5 years was maximum for which company?

e. For which of the following years, the percentage rise or fall in production from the previous year is the maximum for company Y?

c. Study the following pie-charts carefully and answer the questions that follow:

Percentage of Students Enrolled In
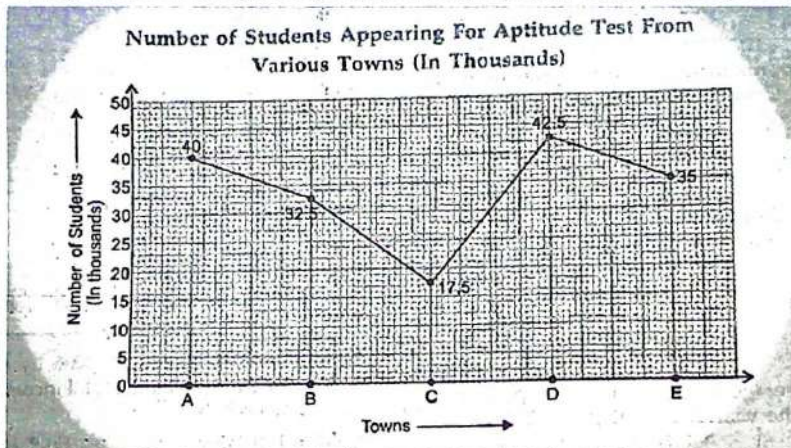Different Streams In a College Total
Number of students = 3500

IT 20%
Management 16%
Arts 30%
Commerce 12%
Science 22%

Percentage Break-up of Girls Enrolled In
These Streams Out of The Total Students
Total Number of Girls = 1500

IT 18%
Science 11%
Commerce 21%
Management 12%
Arts 38%

a. What is the total number of boys enrolled in Management and IT together?

b. What is the ratio of the number of girls enrolled in Arts to the number of boys enrolled in Science?

c. What is the total number of girls enrolled in Science and Commerce together?

d. If 20% of the girls enrolled in Science change their stream to Management, then what will be the new number of Management students together?

e. The number of girls enrolled in Arts, Science and Commerce forms what percent of total number of students in the College?

d. Study the following line graph carefulluy and anwer the questions given below:

Number of Students Appearing For Aptitude Test From
Various Towns (In Thousands)

a. What is the ratio of the number of students appearing for the Aptitude test from Town B to that from Town A?

b. What is the average number of students appearing for the aptitude test from all the towns together?

c. The number of the students appearing for the aptitude test from Town E is approximately what percent of the total number of students appearing for the aptitude test from all the towns E together?

d. The number of students appearing for the aptitude test town D is approximately what percentage of the number of students appearing for the aptitude test from town C?

e. What is the ratio of the number of students appearing for the aptitude test from towns C and D together to the number of students appearing for the aptitude test towns A, D and E

PART - D

4. Answer any 2 questions. Each question carries 6 marks: (6×2= 12 Marks)

a. If each side of a square is increased by 25%, find the percentage change in its area.

b. The diagonal of a rectangular field is 15 m and its area is 108 sq.m. What will be the total expenditure in fencing the field at the rate of Rs 5 per metre?

c. The volume of a wall, 6 times as high as it is broad and 4 times as long as it is high, is 12.8 cu.metres. Find the breadth of the wall.

d. Find the volume, curved surface area and total surface area of a hemisphere of radius 28 cm.

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CHOICE BASED CREDIT SYSTEM SEMESTER SCHEME
B.A./B.B.A./B.C.A./B.Sc. THIRD SEMESTER   DEGREE EXAMINATION
NOVEMBER/DECEMBER 2023
COMMERCE
Advertising Skills

Duration:2 Hours   **Max Marks:60**

SECTION – A

Answer any TWO questions: (15×2= 30)

1) " Advertising a tool of Communication." Explain.

2) Define Media. Explain the different types of Media.

3) "Preparing advertisement is an art and it is always based on the audience, scope product and platform that is used for advertising." Elaborate.

4) Explain briefly the different phases in the Creative Process.

SECTION – B

Answer any FOUR questions :   (5×4= 20)

5) What is meant by Feedback? Explain its types.

6) What is meant by Advertising? Explain its features.

7) Explain the disadvantages of Internet Advertisements.

8) Write a note on Masculine/Feminine Appeal.

9) Explain the techniques to measure Communication Effect.

10) Explain the agencies involved in Self Regulation.

SECTION – C

Answer any FIVE questions :   (2×5= 10)

11) What is meant by Radio Advertising?

12) Mention two methods of Advertising Budget.

13) What do you mean by Media Planning?

14) What do you mean by sales effect in advertising?

15) What is a Advertising Theme?

16) Mention any two types of Advertising Agencies.

17) Mention two benefits of Social Advertising.

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CHOICE BASED CREDIT SYSTEM SEMESTER SCHEME
B.A./B.B.A./B.C.A./B.Sc. THIRD SEMESTER   DEGREE EXAMINATION
NOVEMBER/DECEMBER 2023
COMMERCE
Entrepreneurial Skills

Duration:2 Hours   **Max Marks:60**

SECTION – A

Answer any TWO questions: (15×2= 30)

1) What is a business model? Describe the various steps in developing a business model.

2) Briefly explain the various financial schemes of SIDBI to SSI Units extended to MSME's.

3) Explain the various stages involved in forming a new business.

4) Name of the Borrower: Smt. Sindhu MS Rao

   Place: NR Colony, Bangalore

   Bank: Syndicate Bank (Now Union Bank)

   Activity: Coffee Shop

   Category: Kishore

   Amount Disbursed 2,50,000/

   Sindhu hails from an agricultural family in Tumkur district. She was working in a private cademic institution as clerk for 5 years in Bengaluru. Prior to this, Sindhu had an experience of ground coffee works at Chikkanayakanahalli of Tumkur District. Apart from blending a perfect coffee mix, she is also good at making home products like pickles, Papads and other products.When she heard about the Pradhan Mantri MUDRA Yojna, where in loans were being provided by banks to help budding entrepreneurs to establish their units, she started thinking over it. As she had an experience, Sindhu approached Syndicate Bank N R colony branch with the project report, for setting up a full-fledged coffee grinding and mixing unit. Seeing her enthusiasm and experience, the bank sanctioned her a loan of * 2.50 lakh as working capital, with the help of which, Sindhu, proprietress of M/s. Skanda Coffee, diversified her business into entering in sale of homemade

consumables like papad, Pickles, Rasam powder and other home products made by women self help groups from various parts of Karnataka, thus facilitating an outlet to their products and becoming a regular source of income to the other women as well.Within three months of after sanctioning the loan the business started picking up. After getting loan she is very happy and she is running the firm smoothly. Now she is proud of herself being an earning member of the family, takes care of the educational expense of her children and she is thankful to the bank and PMMY for making her independent and self-reliant.

Explain this case and specify the reason of success.

SECTION – B

Answer any FOUR questions :   (5×4= 20)

5) What are the characteristics of a successful entrepreneur?

6) Briefly explain feasibilty analysis.

7) Write a note on the Credit Guarantee Fund Scheme for Micro and Small Enterprises (CGTMSE).

8) Give a brief note on District Industry Centre (DIC).

9) State the various schemes of SISI's to MSME Sector.

10) Write a short note on competitive and market analysis.

SECTION – C

Answer any FIVE questions :   (2×5= 10)

11) What is Entrepreneurship?

12) State any two objectives of the Atal Innovation Mission (AIM).

13) State any two functions of business monitoring.

14) Expand the term IFCI and SIDBI.

15) Mention the three training programs under Entrepreneurship Development Training Programme.

16) What is market feasibility study?

17) What is Socio- economic Feasibility?

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CHOICE BASED CREDIT SYSTEM SEMESTER SCHEME

B.Com. THIRD SEMESTER DEGREE EXAMINATION NOVEMBER/DECEMBER 2023

COMMERCE

Indirect Taxation

Duration:2 Hours   **Max Marks:60**

Section- A(compulsory)

I . Answer the following question :   **1×20= 20**

1. Tijori Ltd., Mumbai, a registered supplier, manufactures taxable goods. It provides the following details of taxable inter-State supply made by it during the month of March 2023.

Sl.No.	Particulars	Amount (Rs.)
(i)	List price of taxable goods supplied inter-State (exclusive of taxes)	1,50,00,000
(ii)	Subsidy received from the State Government for supply of taxable goods to Government School (exclusively related to supply of goods included at S. No. 1)	21,00,000
(iii)	Subsidy received from an NGO for supply of taxable goods to an old age home (exclusively related to supply of goods included at S. No. 1)	5,00,000
(iv)	Tax levied by Municipal Authority	2,00,000
(v)	Packing charges	15,00,000
(vi)	Late fee paid by the recipient of supply for delayed payment of consideration (Recipient has agreed to pay Rs. 6,0000 in lump sum and no additional amount is payable by him over and above such amount)	60,000

The list price of the goods is net of the two subsidies received. However, the other charges/taxes/fee are charged to the customers over and above the list price.

Calculate the following:

a) Total value of taxable supplies made by Tijori Ltd. during the month of March.

b) Amount of GST payable.

Rate of IGST is 18%. Provide explanations for all entries.

Section- B

II. Answer any Four of the following : 4×10= 40

2. a) State any six significant provisions of Constitution (101st Amendment) Act, 2016.

(6 marks)

b) Explain the applicability of GST on Opium, Indian hemp and other narcotic drugs and narcotics. **(2 marks)**

c) Explain the applicability of GST on Tobacco. **(2 marks)**

3. Explain the following forms of Supply:

a) Sale and transfer **(3 marks)**

b) Barter and exchange **(3 marks)**

c) License, lease, rental and disposal **(4 marks)**

4. a) Investigation shows that 150 pieces of air conditioners were dispatched on 2nd September but no invoice was raised and the transaction (dispatch of air conditioners) were not entered in the accounts. There was no evidence of receipt of payment. What is the time of supply of 150 pieces of air conditioners for the purpose of payment of tax? **(5 marks)**

b) Sodexo meal coupons are sold to a company on 1st January for distribution to the employees of the said company. The coupons are valid for six months and can be used against purchase of food items. The employees use them in various stores for purchases of various edible items on different dates throughout the six months. What is the date of supply of the coupons? **(5 marks)**

5. Explain the following terms as per GST Act:

a) Goods **(4 marks)**

b) Reverse charge **(2 marks)**

c) Recipient **(4 marks)**

6. Explain the following terms as per CGST Act, 2017 with one example each:

a) Composite Supply **(5 marks)**

b) Mixed Supply **(5 marks)**

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CHOICE BASED CREDIT SYSTEM SEMESTER SCHEME

B.Com. THIRD SEMESTER DEGREE EXAMINATION NOVEMBER/DECEMBER 2023

COMMERCE

International Financial Reporting

Duration:2 Hours   **Max Marks:60**

Section-A

Answer any TWO of the following :   **2×15= 30**

1. Explain the Matching Principle in Accounting. How does it relate to the recognition of expenses and revenue?

2. A bank has a $5 million loan portfolio and wants to securitize it. If they decide to sell 80% of the portfolio to an investment firm, how much will they receive?

3. PQR Inc has a tax loss carry forward of $50,000 that they expect to use to reduce future taxable income. The tax rate is 25%. Calculate the Deferred Tax Asset (DTA) for the tax loss carry forward.

Section-B

Answer any TWO of the following :   **2×10= 20**

4. Describe the typical components or sections of a statement of changes in equity and how they relate to a company's financial performance.

5. Calculate the earnings per share (EPS) for a company with a net income of $400,000 and 100,000 outstanding shares.

6. A company took out a loan of $2,000,000 at an interest rate of 7%. They incurred $150,000 in interest expenses during the construction of a factory that took 24 months to complete. Calculate the total amount to be capitalized on the balance sheet.

Section-C

Answer any TWO of the following :   **2×5= 10**

7. What is the difference between a Stock Dividend and Cash Dividend?

8. A retailer uses the Weighted Average Cost method. At the beginning of the year, they had 300 units at $8 each. During the year, they purchased 200 units at $10 each and 400 units at $12 each. Calculate the weighted average cost per unit.

9. A company sells magazine subscriptions to customers. The company offers a variety of subscription plans, including annual subscriptions and monthly subscriptions. The company recognizes revenue for annual subscriptions upfront, but it recognizes revenue for monthly subscriptions over the life of the subscription. The company sold 1,200 annual subscriptions and 600 monthly subscriptions in January. The average annual subscription price is $130 and the average monthly subscription price is $15.

How much revenue should the company recognize in January?

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