

GUJARAT TECHNOLOGICAL UNIVERSITY

COACH - (RCOA)

EXAM DATE : 28/02/2024

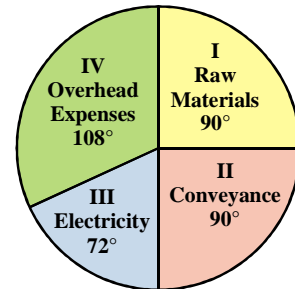
PROVISIONAL ANSWER KEY

- 001 Select the correct plural forms of “Basis”
(A) bassis
(B) bases
(C) basises
(D) basium
- 002 While the battle_____ out in the open, the technological capability of the coalition forces_____ them the lead.
(A) had been fought / was giving
(B) was fought / would give
(C) was being fought / gave
(D) would have been fought / will give
- 003 _____ he gives the appearance of sincerity and reliability, just remember that you can't trust him an inch.
(A) That
(B) As far as
(C) So
(D) Though
- 004 His scheme, with all its shortcomings, will inevitably be pushed through _____ we can produce one, by Tuesday, which is obviously much more feasible.
(A) how
(B) so that
(C) unless
(D) moreover
- 005 What is a synonym of 'trouble'?
(A) peril
(B) succor
(C) passe
(D) indolence
- 006 If the sum of two numbers is 13 and the sum of their square is 85. Find the numbers?
(A) 6 & 7
(B) 5 & 8
(C) 4 & 9
(D) 3 & 10
- 007 In the context of artificial intelligence (AI) and machine learning, how are the concepts of explicate and implicate memory best represented?
(A) Explicit memory is represented as structured data in a database, while implicit memory is represented as algorithms.
(B) Explicit memory is represented as algorithms used in AI programming, while implicit memory is represented in the form of machine learning weights.
(C) Explicit memory is represented as code comments in the program, while implicit memory is represented as the code itself.
(D) Explicit memory is represented as the underlying hardware architecture, while implicit memory is represented as machine instructions.

- 008 What characteristic of read-only memory (ROM) makes it useful?
 (A) ROM information can be easily updated
 (B) Data in ROM is nonvolatile, that is, it remains there even without electrical power
 (C) ROM provides very large amounts of inexpensive data storage
 (D) ROM chips are easily swapped between different brands of computers
- 009 _____ is the cyclical process of collecting and analyzing data during a research study.
 (A) Constant Analysis
 (B) Extremis Analysis
 (C) Interim Analysis
 (D) All of the above
- 010 On 8th Feb, 2005 it was Tuesday. What was the day of the week on 8th Feb, 2004?
 (A) Tuesday
 (B) Monday
 (C) Sunday
 (D) Wednesday

- 011 Study the pie chart and answer the given questions. The total expenditure of a company for a particular month is Rs. 60000. The various heads of expenditure I to IV are indicated in a pie chart given.

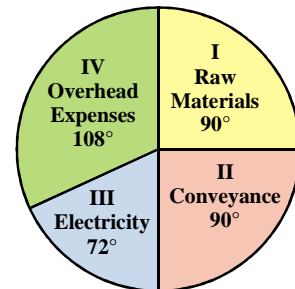
These heads are:



Question : What percentage of total expenditure is on electricity?

- (A) 23%
 (B) 25%
 (C) 30%
 (D) 20%
- 012 Study the pie chart and answer the given questions. The total expenditure of a company for a particular month is Rs. 60000. The various heads of expenditure I to IV are indicated in a pie chart given.

These heads are:

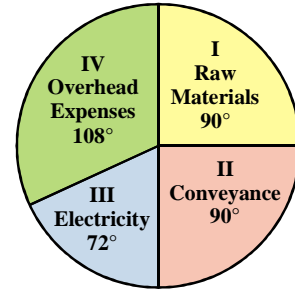


Question : What percentage of total expenditure is on raw materials?

- (A) 23%
 (B) 60%
 (C) 25%
 (D) 30%

- 013 Study the pie chart and answer the given questions. The total expenditure of a company for a particular month is Rs. 60000. The various heads of expenditure I to IV are indicated in a pie chart given.

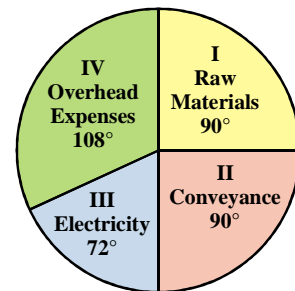
These heads are:



Question : Total expenditure on conveyance is?

- (A) Rs 12,000
(B) Rs 15,000
(C) Rs 20,000
(D) Rs 10,000
- 014 Study the pie chart and answer the given questions. The total expenditure of a company for a particular month is Rs. 60000. The various heads of expenditure I to IV are indicated in a pie chart given.

These heads are:



Question : What is the amount spent on overhead expenses?

- (A) Rs 12,000
(B) Rs 15,000
(C) Rs 18,000
(D) Rs 10,000
- 015 The Process of describing the data that is huge and complex to store and process is known as _____
- (A) Analytics Mining
(B) Big data
(C) Data Cleaning
(D) None of the above
- 016 With reference to the water on the planet Earth, consider the following statements:
1. The amount of water in the rivers and lakes is more than the amount of groundwater.
 2. The amount of water in polar ice caps and glaciers is more than the amount of groundwater.
- Which of the statements given above is/are correct?
- (A) 1 only
(B) 2 only
(C) Both 1 and 2
(D) Neither 1 nor 2

- 017 Consider the following:
1. Bacteria
 2. Fungi
 3. Virus
- Which of the above can be cultured in artificial/synthetic medium?
- (A) 1 and 2 only
(B) 2 and 3 only
(C) 1 and 3 only
(D) 1, 2 and 3
- 018 Consider the following statements in respect of Bharat Ratna and Padma Awards:
1. Bharat Ratna and Padma Awards are titles under the Article 18(1) of the Constitution of India.
 2. Padma Awards, which were instituted in the year 1954, were suspended only once.
 3. The number of Bharat Ratna Awards is restricted to a maximum of five in a particular year.
- Which of the above statements are not correct?
- (A) 1 and 2 only
(B) 2 and 3 only
(C) 1 and 3 only
(D) 1, 2 and 3
- 019 Which one of the following is used in preparing a natural mosquito repellent?
- (A) Congress grass
(B) Elephant grass
(C) Nut grass
(D) Lemongrass
- 020 Who has been appointed as India's ambassador to the World Trade Organisation (WTO) in Geneva?
- (A) Brajendra Navnit
(B) Senthil Pandian C
(C) Pankaj Kumar Bansal
(D) M Selvendran
- 021 With reference to the Union Government, consider the following statements:
1. Gopalaswamy Iyengar Committee suggested that a minister and a secretary be designated solely for pursuing the subject of administrative reform and promoting it.
 2. In 1970, the Department of Personnel was constituted on the recommendation of the Administrative Reforms Commission, 1966, and this was placed under the Prime Minister's charge.
- Which of the statements given above is/are correct?
- (A) 1 only
(B) 2 only
(C) Both 1 and 2
(D) Neither 1 nor 2
- 022 'Right to Privacy' is protected under which Article of the Constitution of India?
- (A) Article 15
(B) Article 19
(C) Article 21
(D) Article 29

- 023 As per the Indian Constitution, the retirement age of the Chief Justice of the Supreme Court of India is?
(A) 52 years
(B) 55 years
(C) 60 Years
(D) 65 years
- 024 Which of the following appointments is not made by the President of India?
(A) Chief of the Army
(B) Speaker of the Lok Sabha
(C) Chief Justice of India
(D) Chief of the Air Force
- 025 The Rajya Sabha can delay the Money Bill sent for its consideration by the Lok Sabha for a maximum period of
(A) 16 days
(B) 14 days
(C) 10 days
(D) 7 days
- 026 Which of the following is not the function of the Niti Ayog?
(A) To foster cooperative federalism.
(B) To create a knowledge innovation and entrepreneurial support system.
(C) To focus on technology upgradation and capacity building for implementation of programmes and initiatives.
(D) Allocation of fund between the Union and the States.
- 027 As per the Gujarat (Right of Citizens to Public Services) Act 2013, a state appellate authority shall consist of such number of members, not exceeding _____, as may be prescribed.
(A) 3
(B) 5
(C) 4
(D) 7
- 028 What is the fee to be paid to file a first appeal under Right to Information Act, 2005
(A) Rs. 10/-
(B) Rs. 20/-
(C) No fee to be paid
(D) Rs. 50/-
- 029 Who shall have the right to information under the Right to Information Act, 2005
(A) Any person of foreign countries
(B) All citizens of India
(C) Both (A) and (B)
(D) None of the above
- 030 The State Information Commission shall consist of State Information Commissioners, not exceeding _____.
(A) 10
(B) 5
(C) 6
(D) 4
- 031 In which year did Smt. Anne Besant establish the Central Hindu College in Banaras?
(A) 1900
(B) 1901
(C) 1902
(D) 1898

- 032 In which year did Borsad Satyagraha take place?
(A) 1917-18
(B) 1923-24
(C) 1921-22
(D) 1922-23
- 033 Which of the following leaders participated in the Dharasana Satyagraha?
(1) Abbas Saheb
(2) Narhari Parikh
(3) Sarojini Naidu
(4) Mithubahen Pitit
(A) (1) and (2)
(B) (1) and (3)
(C) (1), (2), (3) and (4)
(D) (1), (2) and (3)
- 034 In which year did the Congress Convention held in Delhi Demand Complete Swaraj?
(A) 1933
(B) 1930
(C) 1932
(D) 1929
- 035 When was the poll held for Junagadh state to join the Union of India?
(A) January, 1948
(B) March, 1948
(C) April, 1948
(D) February, 1948
- 036 According to latest census, which states in India have the highest population of Tigers?
(A) Uttarakhand
(B) Madhya Pradesh
(C) Karnataka
(D) Tamil Nadu
- 037 How many Gold Medals has India won in the Asian Athletics Championships, 2023?
(A) 8
(B) 3
(C) 6
(D) 5
- 038 Who among the following has been honored with Kirti Chakra Award in the year 2023?
(A) Dilip Kumar Das (CRPF) (Posthumously)
(B) Major Vijay Verma (Army)
(C) Major Sachin Negi (Army)
(D) Nayak Bhim Singh (Army)
- 039 Where was the grand international festival of literature and culture “Unmesh” and “Utkarsh” organized in August, 2023?
(A) New Delhi
(B) Calcutta
(C) Mumbai
(D) Bhopal
- 040 Who is the chief architect of the new parliament building?
(A) Raj Rewal
(B) Bimal Patel
(C) Hafeez Contractor
(D) Brinda Somaiya

- 041 What is full form of “UDISHA” project launched by the Government of Gujarat?
 (A) Uniform Development of Integrated Skills through Higher Education Agencies.
 (B) Uniform Development of Internal Skills through Higher Education Agencies.
 (C) Universal Development of Integrated Skills through Higher Education Agencies.
 (D) Universal Development of Internal Skills through Higher Education Agencies.
- 042 SANDHAN is an initiative by Office of the Commissioner of Higher Education and Knowledge Consortium of Gujarat. Under this program video lecture of various UG course are being telecasted since _____.
 (A) 2010
 (B) 2014
 (C) 2012
 (D) 2009
- 043 How many National Institute of Technical Teacher’s Training & Research in India?
 (A) 7
 (B) 8
 (C) 4
 (D) 5
- 044 The Indian Institutes of Technology (IITs) are governed by the _____.
 (A) Institute of Technology Act, 1961
 (B) Institute of Technology Act, 1956
 (C) Institute of Technology Act, 1950
 (D) Institute of Technology Act 1959
- 045 In which year IIMs were declared institutions of national importance by the Ministry of Human Development?
 (A) 2015
 (B) 2017
 (C) 2016
 (D) 2018
- 046 The Indian Institute of Management was setup in 1961 in collaboration with the_____
 (1) MIT Sloan School of Management
 (2) The Government of West Bengal
 (3) The Ford Foundation
 (4) Indian Industry
 (A) (1)
 (B) (1) and (2)
 (C) (1), (2) and (3)
 (D) (1), (2), (3) and (4)
- 047 Pharmacy Council of India, a statutory body governed by the provisions of _____.
 (A) The Pharmacy Act, 1948
 (B) The Pharmacy Act, 1950
 (C) The Pharmacy Act, 1351
 (D) The Pharmacy Act, 1352
- 048 The Distance Education Council (DEC) of India, established and empowered under the IGNOU Act of _____.
 (A) 1984
 (B) 1983
 (C) 1985
 (D) 1986

- 049 The Bar Council of India elects its Chairman and Vice-chairman for _____ years from amongst its members.
(A) three
(B) two
(C) four
(D) five
- 050 National Council of Teacher Education make recommendation which of the following Government institutions in the matter of preparation of suitable plans and programmes in the field of teacher education?
(1) Central and State Government
(2) Universities
(3) U.G.C.
(4) Recognized Institutions
(A) (1)
(B) (3)
(C) (1) and (3)
(D) (1) to (4)
- 051 An efficient Coach is he who
(A) Tells
(B) Tells and demonstrates
(C) Tells, demonstrates and explains
(D) Tells, demonstrates, explains and inspires
- 052 'Round Robin' is a name given to
(A) Knock out tournament
(B) Ladder tournament
(C) League type composition
(D) None of the above
- 053 The final event in 'Decathlon' is always.
(A) Javelin throw
(B) 1500 - meter race
(C) 110 - meter hurdles
(D) 800 - meter race
- 054 In selecting talent, the most important factor to be considered is.
(A) Training state
(B) Health
(C) Interest and attitude
(D) All the above
- 055 During the ancient olympics, an olympic truce was imposed. Which of the following was/were the term(s) of that armistice?
I. All fighting must stop for three months during olympic training and games.
II. The army and people with weapons cannot enter the olympic grounds.
III. There is no death penalty during the olympics.
(A) I, II and III
(B) II and III
(C) only III
(D) I and II

- 056 When planning a Periodization exercise Plan, significant changes should generally occur every _____.
 (A) 4 - 8 weeks
 (B) 3 - 10 days
 (C) 3 - 4 months
 (D) Annually
- 057 In which form of exercise resistance is accommodated throughout the range of motion and the contractions are performed at a dynamic preset fixed speed ?
 (A) Isokinetic exercises
 (B) Isometric exercises
 (C) Isotonic exercises
 (D) All of these
- 058 Which muscle is involved in the elevation of arm ?
 (A) Deltoid
 (B) Biceps
 (C) Triceps
 (D) Quadriceps
- 059 Force generation but fiber lengthening is also known as
 (A) Eccentric Contraction
 (B) Isotonic Contraction
 (C) Isometric Contraction
 (D) Lateral back Curve
- 060 Hamstring muscle
 (A) extends knee
 (B) flexes knee
 (C) extends elbow
 (D) flexes elbow
- 061 Which of the following planes of the body divides it into upper and lower parts ?
 (A) Sagittal
 (B) Transverse
 (C) Frontal
 (D) Vertical
- 062 Acceleration of an object will increase as the net force increases depending on its -
 (A) Density
 (B) Mass
 (C) Shape
 (D) Volume
- 063 The speed of a projectile at its maximum height is half of its initial speed. The angle of projection is
 (A) 60°
 (B) 50°
 (C) 30°
 (D) 45°
- 064 After anticipating and planning, the teacher Prepares to deliver goods. Which of the following is/are not the kind(s) of preparation?
 I. Personal preparation
 II. Technical preparation
 (A) Both I and II
 (B) Neither I nor II
 (C) Only II
 (D) Only I

- 065 Which one of the following is NOT the approach of a lesson plan ?
(A) Herbartian five-step approach
(B) Morrison's or unit approach
(C) Bloom's evaluation approach
(D) Pyramid approach
- 066 Which of the following is the example of theory of personality?
(A) Sheldon's classification
(B) Jung classification
(C) Personality
(D) Intrinsic
- 067 Big Five Theory is a theory of
(A) Rest
(B) Emotion
(C) Encouragement
(D) Personality
- 068 The mechanistic explanation for the effectiveness of goal setting includes -
(A) Mobilizing and directing efforts towards improvement
(B) The only disadvantage noted was setting goals unrealistically high
(C) Monitoring progress toward team goals, Fostering team confidence concerning team goals
(D) Goal setting better enhanced performance on low as compared with high complexity tasks
- 069 Which are the two most common types of white blood cells ?
(A) Neutrophils and Lymphocytes
(B) Erythrocytes and Neutrophils
(C) Neutrophils and Eosmophils
(D) Monocytes and Lymphocytes
- 070 Which hormone Produces a decrease in arterial blood pressure?
(A) Vasopressin
(B) ANP
(C) ADH
(D) Angiotensin II
- 071 Which Fruit is a good source of potassium?
(A) Oranges
(B) Peach
(C) Kiwi
(D) Banana
- 072 How many amino acids must be available in diet?
(A) 23 amino acids
(B) 9 amino acids
(C) 17 amino acids
(D) None of the above
- 073 Which one of the following statement is not accurate?
(A) Amount of calories intake does not matter when an individual is on diet.
(B) Labelled food does not satisfies the nutrient requirements of an individual's body
(C) In order to loose weight exercise is also necessary along with dieting
(D) None of the above

- 074 Which of the following is a micro nutrient?
- (A) Carbohydrates
 - (B) Fats
 - (C) Water
 - (D) Vitamins
- 075 Assertion: After training we should not stop the movements immediately.
Reason: If you are not performing proper cooling down, muscles becomes stiff.
- (A) Both A and R are true and R is the correct explanation of A.
 - (B) Both A and R are true but R is not the correct explanation of A.
 - (C) A is true but R is false.
 - (D) R is true but A is false.
- 076 Which Performance enhancing drug acts like testosterone, increasing muscle mass in those who use it?
- (A) Erythro Poietin
 - (B) Anabolic Steroids
 - (C) Strychnine
 - (D) Diuretics
- 077 Which athlete admitted to doping in 2012 and was stripped of all titles and permanently banned from competing in sports?
- (A) Floyd Landis
 - (B) Martina Hingis
 - (C) Michael Phelps
 - (D) Lance Armstrong
- 078 This is an example of stretch reflex stimulated by passive muscle movement
- (A) Patellar Reflex
 - (B) Tendon Reflex
 - (C) Flexor Reflex
 - (D) Insilateral Reflex
- 079 The energy for muscle contraction is derived from the mechanisms below EXCEPT for one. Which one is Not a method of producing ATP?
- (A) Anaerobic glycolysis
 - (B) Aerobic respiration
 - (C) Direct phosphorylation of ADP - by creatinine phosphate
 - (D) Anaerobic digestion of Lactic Acid
- 080 Your colleague is confused about using the marketing research process, as he knows that something is wrong but is not sure of the specific causes to investigate. He seems to be having problems with _____, which is often the hardest step to take.
- (A) Developing the research plan
 - (B) Determining a research approach
 - (C) Defining the problem and research objectives
 - (D) Selecting a research agency
- 081 Why do you need to review the existing literature?
- (A) To make Sure you have a long list of references
 - (B) Because without it, you could never reach the required word-count
 - (C) To find out what is already known about your area of interest
 - (D) To help in your general studying
- 082 SPSS is an acronym of the following?
- (A) Statistical Predictions for Social Sciences
 - (B) Sexual Preferences for the Sixties and Seventies
 - (C) Statistical Package for Social Sciences
 - (D) Sexual Performance and SAD Syndrome

- 083 Goodness of fit of a distribution is tested by_____
- (A) t-test
 - (B) F-test
 - (C) Chi-square test
 - (D) Z-test
- 084 Which law is related to sample investigation?
- (A) Law of statistical regularity
 - (B) Law of inertia of large numbers
 - (C) Both
 - (D) None
- 085 Major drawback to researchers in India is
- (A) Lack of sufficient number of universities
 - (B) Lack of sufficient research guides
 - (C) Lack of sufficient fund
 - (D) Lack of scientific training in research
- 086 What is the blueprint of the competition plan called
- (A) Tactics
 - (B) Technique
 - (C) Skill
 - (D) Strategy
- 087 If 17 teams are participating in this tournament how many teams will get bye?
- (A) 15
 - (B) 01
 - (C) 13
 - (D) 09
- 088 Vertical POSITION hearts typical for sportsmen. Who are engaged in sports:
- (A) Basket ball - Volley ball
 - (B) Weightlifting - Sports gymnastics
 - (C) Foot ball
 - (D) Cycling
- 089 The motor quality, which depends on the greatest degrees of physical serviceability:
- (A) Power
 - (B) Quickness
 - (C) Stamina
 - (D) Velocity
- 090 The concept of fitness of athletes includes:
- (A) The physical preparation and functional readiness of organism
 - (B) The tactical and technical preparation
 - (C) The moral and Volitional and psychological preparation
 - (D) All of the above
- 091 Sedative massage after the end of the competition continues:
- (A) 10 - 12 min
 - (B) 10 - 20 min
 - (C) 20 - 40 min
 - (D) 50 - 60 min
- 092 FIF opened a disciplinary case against which team for offensive player misconduct and violations of fair play at the world cup?
- (A) England
 - (B) Morocco
 - (C) Argentina
 - (D) France

- 093 Supination and pronation are the movements of
 (A) **Carpal - Metacarpal joints**
 (B) Radio - Ulnar joint
 (C) Tibia - Fibula joint
 (D) Tarso - Metatarsal joint
- 094 The digestive juices present in the stomach help to digest _____
 (A) Both carbohydrates and proteins
 (B) **Proteins only**
 (C) Fats only
 (D) Carbohydrates only
- 095 During anaerobic muscle metabolism, _____ is produced as the end product of glycolysis.
 (A) **Lactate**
 (B) Isometric
 (C) Myoglobin
 (D) None of the above
- 096 The Leadership style, in which the chief encourages and motivates his subordinates to work beyond their capabilities and expectations is called
 (A) non interference leadership
 (B) directive leadership
 (C) **transformational leadership**
 (D) operations leadership
- 097 According to Patanjali, Asana is
 (A) High calories burn
 (B) Control of sense organs wrong
 (C) Control of water and food intake
 (D) **Sitting in a comfortable position**
- 098 The characteristics of Rajasic Personality of an individual are.
 I. Detached
 II. Active
 III. Greedy
 IV. Enlightenment
 Use the codes given below for correct answer
 (A) I and II are correct
 (B) **II and III are correct**
 (C) II and IV are correct
 (D) III and IV are correct
- 099 What is the range of an individual who falls in the category of overweight according to the criteria of WHO?
 (A) 35 - 39.9
 (B) **25.0 - 29.9**
 (C) 30.0 - 34.9
 (D) 18.5 - 24.9
- 100 Assertion : Sit and Reach test is good for flexibility of lower back and hamstrings.
 Reason : It is not related to the flexibility of other joints.
 (A) Both A and R are true R is the correct explanation of A
 (B) **Both A and R are true But R is not the correct explanation of A**
 (C) A is true but R is false
 (D) R is true but A is false