| Sr No. | MTECH NanoScience and Technology |
|--------|--|
| 1 | In the series 357,363,369, What will be the 10th term? |
| Alt1 | 405 |
| Alt2 | 411 |
| Alt3 | 413 |
| Alt4 | 417 |
| | |
| 2 | Choose word from the given options which bears the same relationship to the third word, as the first two bears: Moon: Satellite :: Earth : ? |
| Alt1 | Sun |
| Alt2 | Planet |
| Alt3 | Solar System |
| Alt4 | Asteroid |
| | |
| 3 | Door is related to Bang in the same way as Chain is related to? |
| Alt1 | Thunder |
| Alt2 | Clinch |
| Alt3 | Tinkle |
| Alt4 | Clank |
| | |
| 4 | Select the lettered pair that has the same relationship as the original pair of words: |
| | Emollient: Soothe |
| Alt1 | Dynamo: Generate |
| Alt2 | Elevation: Level |
| Alt3 | Hurricane: Track |
| Alt4 | Precipitation: Fall |
| | |
| 5 | Which of the following is the same as Count, List, Weight? |
| | Compare |
| Alt2 | Sequence |
| Alt3 | Number |
| Alt4 | Measure |
| | |
| | Spot the defective segment from the following: |
| | The downtrodden |
| | needs |
| | to be uplifted |
| Alt4 | on a war footing |
| | |
| 7 | Choose the meaning of the idiom/phrase from among the options given: |
| | A close shave |
| | a nice glance |
| | a narrow escape |
| | an intimate |
| Alt4 | a triviality |

| | 8 | Lightning in the same place twice. |
|----------|-------|---|
| | Alt1 | doesn't hit |
| | Alt2 | never strikes |
| | Alt3 | never attacks |
| | Alt4 | never falls |
| <u>-</u> | | |
| | 9 | Choose the option closest in meaning to the given word: |
| | | FLIPPANT |
| | Alt1 | serious |
| | Alt2 | unsteady |
| | Alt3 | irreverent |
| | Alt4 | caustic |
| | | |
| | 10 | Choose the antonymous option you consider the best: |
| | | OBSOLETE |
| | Alt1 | obscure |
| | Alt2 | hackneyed |
| | | current |
| - | | grasp |
| | | 0 · · · · |
| | 11 | Akash scored 73 marks in subject A. He scored 56% marks in subject B and X marks in subject C. Maximum |
| | | marks in each subject were 150. The overall percentage marks obtained by Akash in sall te three subjects were |
| | | 54%. How many marks did he score in subject C? |
| | Alt1 | |
| - | Alt2 | |
| - | Alt3 | |
| — | Alt4 | |
| | , | |
| | 12 | A person starts from his house and travels 6 Km towards the West, he then travelled 4 Km towards his left |
| | | and then travels 8 Km towards west and 3 Km towards South. Finally he turns right and travels 5 Km. What is the |
| | | horizontal distance he has travelled from his house? |
| | | 7 Km |
| | | 15 Km |
| | | 23 Km |
| | | 19 Km |
| | 7 (1) | 13 Kill |
| | 13 | If 1st Jan 2012 is a Tuesday then on which day of the week will 1st Jan 2013 fall ? |
| | | Wednesday |
| | | Thursday |
| | | Friday |
| | | Saturday |
| | A11.4 | Saturday |
| | 14 | One morning after sunrise, Reeta and Kavita were talking to each other face to face at University. If Kavita' |
| | | shadow was exactly to the right of Reeta, which direction was Kavita facing? |
| | | North |
| — | | South |
| | | East |
| | AILS! | 1 (3) |

| Λ I+ <i>Δ</i> | West |
|------------------------------------|--|
| AIL4 | west |
| 15 | In an exam every candidate took History (or)Geography(or)both. 74.8%took History and 50.2% took Geograph |
| | |
| | If the Total number of candidates is 1500,how many took History and Geography both? |
| Alt1 | |
| Alt2 | |
| Alt3 | |
| Alt4 | 375 |
| | |
| | Which word includes the larger % of Vowels? |
| | GOOGLE GOOGLE |
| Alt2 | AMAZON |
| Alt3 | FACE BOOK |
| Alt4 | DOE |
| | |
| 17 | A= Least prime >24; |
| | B=Greatest prime <28; Then |
| Alt1 | |
| Alt2 | A <b< td=""></b<> |
| Alt3 | |
| | None |
| 7110-1 | |
| 10 | CL X VIII refers |
| Alt1 | |
| Alt2 | |
| | |
| Alt3 | |
| Alt4 | 107 |
| | |
| | Which of the following is larger than 3/5 ? |
| Alt1 | |
| | 39/50 |
| | 7/25 |
| Alt4 | 59/100 |
| | |
| | Mr. Babu travelled 1200 km by air which formed 2/5 of his trip. One third of the whole trip, he travelled by car |
| | and the rest of the journey was by train. What was the distance travelled by train? |
| Alt1 | 600km |
| Alt2 | 700 km |
| | |
| | 800 km |
| Alt3 | 800 km 900 km |
| Alt3 | |
| Alt3 Alt4 | 900 km |
| Alt3 Alt4 | 900 km During electrolysis:- |
| Alt3 Alt4 21 Alt1 | 900 km During electrolysis:- Anion get reduced |
| Alt3 Alt4 21 Alt1 Alt2 | 900 km During electrolysis:- |

| | The key intermediates in the synthesis of phospholipids is:- |
|------|--|
| | DCP diacyl glycerol |
| | CDP diacyl glycerol |
| Alt3 | CP diacyl glycerol |
| Alt4 | Minimum number of times a fair coin must be tossed so that the probability of getting at least one head is atleast 0.95 is |
| 23 | Minimum number of times a fair coin must be tossed so that the probability of getting at least one head is atleast 0.95 is:- |
| Alt1 | 7 |
| Alt2 | 6 |
| Alt3 | |
| Alt4 | 5 |
| 24 | Requirement for cross-slip movement of dislocation:- |
| Alt1 | No preferred slip plane |
| | Preferred slip plane |
| Alt3 | No preferred slip direction |
| Alt4 | Preferred slip direction |
| 25 | Matix of cell wall is made of:- |
| Alt1 | Hemicellulose |
| Alt2 | Glycoprotein |
| Alt3 | Cellulose |
| Alt4 | Pectin |
| 26 | If the plane polarised light, whose plane of vibration inclined at an angle of 45° to the optic axis, is incident or quarter wave plate, the emergent light is:- |
| Alt1 | Plane polarised light |
| Alt2 | Circularly polarised light |
| Alt3 | Elliptically polarised light |
| | None of these |
| 27 | The value of α for which the quadratic equation x2 - ($\sin \alpha$ -2) x - (1 + $\sin \alpha$) = 0has roots whose sum of squares least, is:- |
| Alt1 | π/3 |
| Alt2 | π/6 |
| Alt3 | π/2 |
| Alt4 | π/4 |
| 28 | Frictional energy is dissipated by:- |
| | wear |
| | wear and heat |
| Alt2 | wear and sound |
| | |
| Alt3 | wear, heat and sound |

| - | |
|------|--|
| Alt1 | CuCO3.Cu(OH)2 |
| Alt2 | Cu2CO3 |
| Alt3 | CuCO3 |
| Alt4 | Cu2O |
| | |
| 30 | Let a , b , c be distinct non-zero real numbers such that a2 ,b2 , c2 are in harmonic progression and a, b, c are in |
| | arithmetic progression, then:- |
| Alt1 | 2b2 - ac = 0 |
| Alt2 | 4b2 - ac = 0 |
| Alt3 | 2b2 + ac = 0 |
| Alt4 | 4b2 + ac = 0 |
| | |
| 31 | Which of the following not allotrope of carbon? |
| Alt1 | |
| Alt2 | Graphite |
| | C22- |
| Alt4 | Diamond |
| • | |
| 32 | The stress to strain ratio is known as:- |
| | Hall-Petch relation |
| Alt2 | Toughness |
| | Eley-Rideal relation |
| | Young's modulus |
| | • |
| 33 | The scattering amplitude can be obtained by substituting the unperturbed wave function in the integral, such an |
| | approximation is called:- |
| | Born approximation |
| | WKB approximation |
| | Bohr approximation |
| | None of these |
| | |
| 34 | The correct option is " Born approximation " |
| | Planck's T3 law |
| - | Einstein's law |
| | Stefan's T3 law |
| | Debye's T3 law |
| | , |
| 35 | The experimental technique most suitable for determination of 3D structure of crystalline solid:- |
| Alt1 | · · · · · · · · · · · · · · · · · · · |
| | Polarimetry |
| | FT-IR |
| | UV-Vis spectroscopy |
| | |
| 36 | A flux of 100 lumen falls normally on a steady table 0.5 m 1 m. The illumination on the table is:- |
| | 50 lux |
| | 25 lux |
| | 200 lux |
| AitS | EUO IUA |

| | 100 lux |
|------------------------------------|---|
| 7.110-7 | 100 100 |
| 37 | Among the following which element does not exhibit allotropy? |
| | chlorine |
| | hydrogen |
| Alt3 | |
| | carbon |
| AIL4 | Carbon |
| 38 | The wave whose amplitude is the same at any point in perpendicular to specified direction is called:- |
| Alt1 | Wave equation |
| | Rectangular wave |
| | Plane wave |
| | None of these |
| | |
| 39 | rRNA present in 40 S subunit of ribosome is:- |
| Alt1 | |
| | 5.8 S |
| | 18 S |
| | 16 S |
| | <u> </u> |
| | $tan^2 x$ is equal to:- |
| Alt1 | -π |
| Alt2 | π/ 2 |
| Alt3 | 1 |
| Alt4 | π |
| | |
| | Let z1 = 30 and z2 + 5 + 12i = 13, then minimumvalue of z2- z2 is:- |
| Alt1 | 2 |
| Alt2 | 6 |
| | • |
| Alt3 | 4 |
| Alt3 | None of these |
| Alt3 | |
| Alt3 Alt4 | |
| Alt3 Alt4 | None of these |
| Alt3 Alt4 42 Alt1 Alt2 | The resistance of photo resistive cell Remains constant irrespective of the light intensity incident upon it Increases with increase in light intensity |
| Alt3 Alt4 42 Alt1 Alt2 | None of these The resistance of photo resistive cell Remains constant irrespective of the light intensity incident upon it |
| Alt3 Alt4 42 Alt1 Alt2 Alt3 | The resistance of photo resistive cell Remains constant irrespective of the light intensity incident upon it Increases with increase in light intensity |
| Alt3 Alt4 42 Alt1 Alt2 Alt3 Alt4 | The resistance of photo resistive cell Remains constant irrespective of the light intensity incident upon it Increases with increase in light intensity Decreases with increase in light intensity in an exponential manner |

| Alt2 | Fat |
|------|--|
| | Lignin |
| | Pectin |
| | |
| 44 | Coefficient of x5 in the expansion of the product(1 + 2x)6 (1 - x)7 is:- |
| Alt1 | |
| Alt2 | 171 |
| Alt3 | 160 |
| Alt4 | 172 |
| 45 | Identify the wrong statement in the following:- |
| | Atomic radius of the elements decreases as one moves across from left to right in the 2nd period of the periodic table |
| | Amongst isoelectronic species, greater the negative charge on the anion, larger is the ionic radius |
| | Atomic radius of the elements increases as one moves down the first group of the periodic table |
| | Amongst isoelectronic species, smaller the positive charge on the cation, smaller is the ionic radius |
| AIL4 | Amongst isoelectronic species, smaller the positive charge on the cation, smaller is the ionic radius |
| 46 | The time period of oscillation of a bar magnet suspended horizontally along the magnetic meridian is T0. If this magnet is replaced by another magnet of the same size and pole strength, but double the mass, the new time period will be:- |
| Alt1 | T0/v2 |
| Alt2 | √2 T0 |
| Alt3 | 2 TO |
| Alt4 | T0/2 |
| | |
| 47 | The eigen value of a hermitian matrix are a)imaginary b) real c) variable d) constant. The wave function corresponding to two different Eigen values are:- |
| Alt1 | Orthogonal |
| | Monoclinic |
| | Triclinic |
| | None of these |
| | |
| 48 | In general bonding energy values are higher for bonds. |
| Alt1 | ionic |
| Alt2 | hydrogen |
| Alt3 | covalent |
| Alt4 | metallic |
| 49 | Which of the following ions bind strongly to valinomycin? |
| Alt1 | |
| | Al3+ |
| Alt3 | |
| | Ca2+ |
| | |
| 50 | What is active form of mannose in the synthesis of mannose-containing carbohydrate chains in glycoproteins? |
| Alt1 | Uridinediphosphate mannose |
| | |

| Alt2 | Adenosine diphosphate mannose |
|----------|--|
| Alt3 | Guanosinediphosphate mannose |
| Alt4 | Cytidinediphosphate mannose |
| | |
| 51 | Sedimentation unit of ribosome is:- |
| | Svedberg (S) |
| | mili-micron (m) |
| | micronm() |
| | Angstrom (Å) |
| | |
| 52 | Ballistic tests are used in magnetic measurements for |
| | Determination of B-H curve of the specimen only |
| | Determination of hysteresis loop of the specimen only |
| | Determination of flux density, magnetizing force and B-H curve and hysteresis loop of the specimen |
| | Finding out iron losses in the specimen |
| | |
| 53 | The covalent bond having highest bond dissociation energy is:- |
| | C=C |
| Alt2 | |
| | C = Si |
| | 0=0 |
| | |
| 54 | Which one of the following oxides crystallizes into fluorite structure? |
| | MgAl2O4 |
| | BaTiO3 |
| | Al2O3 |
| | UO2 |
| | |
| 55 | Vulcanization refers to:- |
| - | extrusion |
| | strengthening of rubber |
| | injection moulding |
| | addition polymerization |
| , | |
| 56 | Middle lamella contains:- |
| | Lignin |
| | Pectate |
| | Cutin |
| | Cellulose |
| 7 110-1 | |
| 57 | Aging is characterized by:- |
| | Increased catabolism |
| | Increased anabolism |
| | Decline in metabolic activity |
| | Increased metabolic activity |
| 7 11 2-1 | |
| 5.8 | According to VSEPR theory, the molecules/ion having ideal tetrahedral shape is:- |
| 1 50 | . 1000. a.m. o to 1021 it theory, the more and of fort having facult tetraneard shape is: |

| Alt1 | S2Cl2 |
|------------------------------|--|
| Alt2 | SO42- |
| Alt3 | SF4 |
| Alt4 | SO2Cl2 |
| | |
| 59 | The EPR spectrum of phenyl radical (C6H5*) shows:- |
| | 24 lines |
| | 36 lines |
| | 6 lines |
| | 18 lines |
| All4 | To lines |
| | |
| | An assembly of fermions is known as:- |
| | Fermi-Dirac gas |
| | Bose-Einstein gas |
| | Maxwell Dirac gas |
| Alt4 | None of these |
| - | |
| 61 | The existence of unique solution for the system of equations, $x + y + z = p$, $5x - y + qz = 10$ and $2x + 3y - z = 6$ |
| | depends on:- |
| Alt1 | neither'p' nor 'q' |
| Alt2 | p' only. |
| Alt3 | q' only. |
| | p' and 'q' both |
| | |
| 62 | The number of linearly independent Eigen function is called:- |
| | System of Degeneracy |
| | Degree of Degeneracy |
| | Degeneracy |
| | None of these |
| All4 | Notic of these |
| | Healing of sute and wayneds in |
| | Healing of cuts and wounds is:- |
| | Repair |
| | Dedifferentiation |
| | Growth |
| Alt4 | Regeneration |
| | |
| ī. | |
| 64 | Monochromatic green light of wavelength 5X10-7m illuminates a pair of narrow slits 1.0mm apart. The |
| 64 | Monochromatic green light of wavelength 5X10-7m illuminates a pair of narrow slits 1.0mm apart. The separator of bright lines on the interference pattern formed on a screen 2m away is:- |
| | |
| Alt1 | separator of bright lines on the interference pattern formed on a screen 2m away is:- |
| Alt1 Alt2 | separator of bright lines on the interference pattern formed on a screen 2m away is:- 1.00mm |
| Alt1 Alt2 Alt3 | separator of bright lines on the interference pattern formed on a screen 2m away is:- 1.00mm 0.10mm |
| Alt1 Alt2 Alt3 | separator of bright lines on the interference pattern formed on a screen 2m away is:- 1.00mm 0.10mm 0.25mm |
| Alt1 Alt2 Alt3 Alt4 | separator of bright lines on the interference pattern formed on a screen 2m away is:- 1.00mm 0.10mm 0.25mm 0.40mm |
| Alt1 Alt2 Alt3 Alt4 | separator of bright lines on the interference pattern formed on a screen 2m away is:- 1.00mm 0.10mm 0.25mm 0.40mm According to vanderwaal's equation of state, the critical volume is:- |
| Alt1 Alt2 Alt3 Alt4 65 Alt1 | separator of bright lines on the interference pattern formed on a screen 2m away is:- 1.00mm 0.10mm 0.25mm 0.40mm According to vanderwaal's equation of state, the critical volume is:- 4b |
| Alt1 Alt2 Alt3 Alt4 | separator of bright lines on the interference pattern formed on a screen 2m away is:- 1.00mm 0.10mm 0.25mm 0.40mm According to vanderwaal's equation of state, the critical volume is:- 4b 3b |

| Alt4 | h |
|-------|---|
| AIL4 | l _o |
| 66 | The reversible Sol-gel transformation is called:- |
| | Electrophoresis |
| _ | Thioxotropy |
| _ | De-emulsification |
| | None of these |
| AIL4 | Inone of these |
| 67 | With tempering temperature, the product becomes:- |
| | tougher |
| | softer |
| | stronger |
| | harder |
| AII4 | Indi dei |
| 60 | All of the following are true about lasers except:- |
| | The light is emitted only in pulses |
| | The light doesn't diverge significantly |
| | Light is essentially all the same wavelength |
| | Light waves are in phase |
| Alt4 | Light waves are in phase |
| 69 | In molecular H2O, NH3 and CH4:- |
| | The hybridization are same |
| | The bond angles are same |
| _ | The bond distances are same |
| | The shapes are same |
| Aich | The shapes are sume |
| 70 | 1If a curve passes through (1, 1) and tangent at any point 'P' on it cuts the axes at 'A' and 'B', where point 'P' bisects the segment AB, then curve is given by:- |
| Δlt1 | x2 + y2 = 2 |
| | xy2 = 1 |
| | xy = 1 |
| | x2y = 1 |
| 7.41 | / |
| 71 | For differential equation $\left(\frac{dy}{dx}\right)^2 - x\left(\frac{dy}{dx}\right) + y = 0$, the solution can be given by:- |
| Alt1 | y = 2x2 - 4 |
| | y = 2 + x |
| _ | y = 2x - 4 |
| 7,113 | <i>p</i> |

Alt4 y = 2x

Alt1 Zero

72 For a spontaneous reaction, e.m.f of the cell is:-

| | Negative |
|------|---|
| | Fixed |
| Alt4 | Positive |
| | |
| 73 | A steam engine converts heat energy into |
| Alt1 | Magnetic energy |
| Alt2 | Electrical energy |
| Alt3 | Chemical energy |
| Alt4 | Mechanical energy |
| | |
| 74 | Among the following C-O bond order is linear in:- |
| | [Mn (CO)6]+ |
| | Fe(CO)5 |
| | [V(CO)6]- |
| | Cr(CO)6 |
| , | 1 , , |
| 75 | Extra uridine rich small sized RNA is:- |
| | sn RNA |
| | sc RNA |
| | 5.8 S RNA |
| | 5 S RNA |
| Alt4 | J 3 KIVA |
| 76 | The most common type of reproduction in bacteria is: |
| | The most common type of reproduction in bacteria is:- Budding |
| | |
| | Binary fission |
| | Binary fusion |
| AIT4 | Sexual reproduction |
| 77 | Description of the original control of the control |
| | Regulated unit of genetic material is termed:- |
| | Regulator gene |
| | Okazaki segment |
| | Operator gene |
| Alt4 | Operon |
| | |
| | Ferrites are:- |
| | paramagnetic |
| | ferrimagnetic |
| | ferromagnetic |
| Alt4 | piezoresistive |
| | |
| 79 | Which among the following is not the non-destructive method of testing materials? |
| Alt1 | magnetic particle inspection |
| Alt2 | radiography |
| Alt3 | X-ray diffraction |
| Alt4 | dye penetrant test |
| | |
| 80 | Transformer cores are made from:- |
| | |

| Alt1 | Cu-Si alloy |
|------|--|
| Alt2 | Fe-Si alloy |
| | Cu-Co alloy |
| | Fe-Cu alloy |
| | |
| 81 | Albinism is:- |
| | Genetic disorder |
| | Environment related disorder |
| | Infectious disease |
| | Deficiency disease |
| Alt4 | Deficiency disease |
| 92 | Select the false statement about catalyst:- |
| | · |
| | Catalyst increases the reaction rate |
| | Catalyst gets regenerated after the process |
| | Catalyst alters the thermodynamic path |
| Alt4 | Catalyst reduces the activation energy |
| | |
| | Kreb's cycle takes place in:- |
| | Chloroplast |
| _ | Mitochondria |
| _ | Ribosome |
| Alt4 | Endoplasmic reticulum |
| | |
| 84 | Melting point of ice |
| Alt1 | Is proportional to cube of pressure |
| Alt2 | Decreases with increase in pressure |
| Alt3 | Increases with increase in pressure |
| Alt4 | Does not depend upon pressure |
| | |
| 85 | If pair of lines 3x2 - 2pxy - 3y2 = 0 and 5x2 - 2qxy - 5y2 = 0 are such that each pair bisects the angle between the |
| | other pair, then pq is equal to:- |
| Alt1 | |
| Alt2 | -20 |
| Alt3 | -1 |
| Alt4 | -15 |
| | |
| 86 | Hydrogen gas is not liberated when the following metal is added to dilute HCL:- |
| Alt1 | |
| Alt2 | |
| Alt3 | |
| Alt4 | |
| AIL4 | |
| Ω7 | Find out the statement which is incorrect about Duralumin:- |
| | It can be forged |
| | |
| | It has good machinability |
| | It is lighter than aluminum |
| Alt4 | It undergoes age hardening |

| 88 | |
|------|---|
| | If the chords of contact of tangents from $(-4, 2)$ and $(2, 1)$ to the hyperbola $\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$ |
| | are at rightangle, then eccentricity of the hyperbola is:- |
| Alt1 | $\sqrt{\frac{3}{2}}$ |
| Alt2 | √3 |
| Alt3 | $\sqrt{\frac{5}{2}}$ |
| Alt4 | $\sqrt{2}$ |
| 80 | During adsorption:- |
| | ΔG will be equal to zero |
| | ΔG will be negative |
| | ΔG will be positive |
| | None of these |
| | |
| | Vinegar is synthesized from alcohol by:- |
| | Azotobector |
| | Rhizobium |
| | Lactobacillus bacteria |
| Alt4 | Bacilli aceti bacteria |
| 01 | The formula used to calculate the size of the particle is known as: |
| | The formula used to calculate the size of the particle is known as:- |
| | Scherrer Bode |
| AILZ | DOLC . |

Alt3 Kirkendall Alt4 Laue

| q2 | |
|--|---|
| 52 | During complete metabolism of glucose the number of ATP formed from corresponding number of ADP |
| | molecules, OR the net gain of energy from one gram of glucose during aerobic respiration is:- |
| | |
| Alt1 | 38 ATP |
| Alt2 | 16 ATP |
| | 2 ATP |
| | 36 ATP |
| AILT | 30 ATT |
| 93 | What is the integral of $(2x + 3)(2x - 5)$ with respect to x? |
| | 8x3 - 15x2 + c |
| | x4 - 2x3 - 15x2 + c |
| | |
| | 8x - 4 + c |
| Alt4 | x3 - 2x2 - 15x + c |
| 0.4 | Which of the following is an intensive property:- |
| | Surface tension |
| | |
| | Temperature |
| | Viscosity |
| Alt4 | All of these |
| | |
| 95 | Link between carbohydrate and fat metabolism or between glycolysis, Kreb's cycle and β -oxidation of fatty ac |
| | is:- |
| Alt1 | Pyruvic acid |
| Alt2 | Oxaloacetate |
| Alt3 | Citric acid |
| Alt4 | Acetyl CoA |
| | · |
| 96 | |
| | |
| | If equations $r \times a = b$ and $r \times c = d$ are consistent, then: |
| | If equations $\vec{r} \times \vec{a} = \vec{b}$ and $\vec{r} \times \vec{c} = \vec{d}$ are consistent, then:- |
| Alt1 | If equations $r \times a = b$ and $r \times c = d$ are consistent, then: |
| | |
| Alt2 | b.c = a.d = 0 a.d + b.c = 0 |
| Alt2 Alt3 | b.c = a.d = 0 a.d + b.c = 0 a.d + c.d = 0 |
| Alt2 Alt3 | b.c = a.d = 0 a.d + b.c = 0 |
| Alt2 Alt3 Alt4 | b.c = a.d = 0 a.d + b.c = 0 a.d + c.d = 0 a.d = c.d |
| Alt2 Alt3 Alt4 | b.c = a.d = 0 a.d + b.c = 0 a.d + c.d = 0 a.d = c.d Fischer-Tropsch process is used for the manufacture of:- |
| Alt2 Alt3 Alt4 97 Alt1 | b.c = a.d = 0 a.d + b.c = 0 a.d + c.d = 0 a.d = c.d Fischer-Tropsch process is used for the manufacture of:- Synthetic petrol |
| Alt2 Alt3 Alt4 97 Alt1 Alt2 | b.c = a.d = 0 a.d + b.c = 0 a.d + c.d = 0 a.d = c.d Fischer-Tropsch process is used for the manufacture of:- Synthetic petrol Ethanol |
| Alt2 Alt3 Alt4 97 Alt1 Alt2 Alt3 | b.c = a.d = 0 a.d + b.c = 0 a.d + c.d = 0 a.d = c.d Fischer-Tropsch process is used for the manufacture of:- Synthetic petrol Ethanol Benzene |
| Alt2 Alt3 Alt4 97 Alt1 Alt2 Alt3 | b.c = a.d = 0 a.d + b.c = 0 a.d + c.d = 0 a.d = c.d Fischer-Tropsch process is used for the manufacture of:- Synthetic petrol Ethanol |
| Alt2 Alt3 Alt4 97 Alt1 Alt2 Alt3 Alt4 | b.c = a.d = 0 a.d + b.c = 0 a.d + c.d = 0 a.d = c.d Fischer-Tropsch process is used for the manufacture of:- Synthetic petrol Ethanol Benzene Ethanoic acid |
| Alt2 Alt3 Alt4 97 Alt1 Alt2 Alt3 Alt4 | b.c = a.d = 0 a.d + b.c = 0 a.d + c.d = 0 a.d = c.d Fischer-Tropsch process is used for the manufacture of:- Synthetic petrol Ethanol Benzene Ethanoic acid The matrix A satisfies the condition A = AT is:- |
| Alt2 Alt3 Alt4 97 Alt1 Alt2 Alt3 Alt4 98 Alt1 | b.c = a.d = 0 a.d + b.c = 0 a.d + c.d = 0 a.d = c.d Fischer-Tropsch process is used for the manufacture of:- Synthetic petrol Ethanol Benzene Ethanoic acid The matrix A satisfies the condition A = AT is:- identity |
| Alt2 Alt3 Alt4 97 Alt1 Alt2 Alt3 Alt4 98 Alt1 Alt2 | b.c = a.d = 0 a.d + b.c = 0 a.d + c.d = 0 a.d = c.d Fischer-Tropsch process is used for the manufacture of:- Synthetic petrol Ethanol Benzene Ethanoic acid The matrix A satisfies the condition A = AT is:- |

| Alt4 | adjoint |
|------|--|
| | |
| 99 | Evolution of CO2 is more than intake of oxygen when:- |
| Alt1 | Glucose is respired |
| Alt2 | Fats are respired |
| Alt3 | Organic acids are respired |
| Alt4 | Sucrose is respired |
| | |
| 100 | If the order of matrix A is nxp and the order of matrix B is pxm, what is order of matrix AB:- |
| Alt1 | рхр |
| Alt2 | nxm |
| Alt3 | пхр |
| Alt4 | pxm |