

TET cum TRT - 2018

TGT – GENERAL SCIENCE

1. The first Prime Minister of Independent India is

1. **Jawarharlal Nehru**
2. Indira Gandhi
3. Lal Bahadur Sastri
4. Gulzarilal Nanda

2. The gas used to extinguish fire is

1. Neon
2. **Carbon dioxide**
3. Carbon monoxide
4. Nitrogen

3. The Headquarters of HDFC Bank is located at

1. **Mumbai**
2. Bengaluru
3. Nainital
4. Delhi

4. SIM stands for
 1. Self Identity Machine
 2. Self Identity Module
 3. Subscriber Identity Mode
 4. **Subscriber Identity Module**

5. The Noble Prize 2017 in Literature was awarded to
 1. **Kazuo Ishiguro**
 2. Richard H. Thaler
 3. Barry C Barish
 4. Michael Rosbash

6. The present Governor of R.B.I is
 1. Urgit Patel
 2. **Shakti Kanta Das**
 3. Ranga Rajan
 4. Raghu Ram Rajan

7. World's women's Volley Ball championship 2018 was held at
 1. **Japan**
 2. Canada
 3. India
 4. Australia

8. The first Ebola Virus species was discovered in
1. 1956
 2. 1966
 3. **1976**
 4. 1986
9. CTRI is located at
1. Hyderabad
 2. Guntur
 3. Visakhapatnam
 4. **Rajahmundry**
10. The first NTR National Award in 1996 was awarded to
1. N.T. Rama Rao
 2. **Akkineni Nageswara Rao**
 3. Amitabh Bachchan
 4. M. Mohan Babu
11. The Cyclone that was affected in Andhra Pradesh in December 2018 was named as
1. **Pethai**
 2. Titli
 3. Hud Hud
 4. Laila

12. The title given to Sri Potti Sree Ramulu was
1. Mahatma
 2. Andhra Kesari
 3. **Amarajeevi**
 4. Andhra Tilak
13. The following person was not a recipient of Bharata Ratna Award in 1991
1. Rajiv Gandhi
 2. Sardar Vallabhbhai Patel
 3. Morarji Ranchhodji Desai
 4. **Gulzarilal Nanda**
14. Rashtriya Madhyamika Shiksha Abhiyan (RMSA) was launched in
1. 2006
 2. 2007
 3. 2008
 4. **2009**
15. NIRF stands for
1. National International Ranking Framework
 2. **National Institutional Ranking Framework**
 3. National Integrated Ranking Framework
 4. National Innovative Ranking Framework

16. The first Indian Prime Minister who visited Israel
1. Sri Man Mohan Singh
 2. **Sri Narendra Modi**
 3. Sri Atal Bihari Vajpayee
 4. Sri Rajiv Gandhi
17. One of the following was called “All India war Memorial”
1. **India Gate**
 2. Gate of India
 3. Red Fort
 4. Qutub Minar
18. The commonly used gas to fill incandescent light bulb is
1. Oxygen
 2. **Argon**
 3. Hydrogen
 4. Neon
19. ‘Beti Bachao Beti Padhao’ is one of the flagship programmes of the Government launched in
1. **2015**
 2. 2014
 3. 2016
 4. 2017

20. The following scheme was launched by the Central Government for direct transfer of LPG subsidy all over the Country
1. **PAHAL**
 2. NIFTEM
 3. NMFP
 4. RKSK
21. Which of these options shows the steps in the method of study laid down in Upanishads?
1. Sravana, Upanayana, Nidi- Dhyasana
 2. Sravana, Upanayana, Manana
 3. **Sravana, Manana, Nidi- Dhyasana**
 4. Nidi- Dhyasana, Upanayana, Manana
22. This is true about the place of the teacher in Vedic education
1. To lead the student from the light of knowledge to the darkness of ignorance
 2. Teachers were dishonoured by kings
 3. The teacher did not essentially a man of character
 4. **The teacher was regarded as the spiritual and intellectual father for the students.**
23. Identify the correct match
1. **Register of pay bills- Account books**
 2. Memo book- Equipment register
 3. Cumulative records- financial records
 4. Contingent register- Educational Record

24. This is true about Private managements in establishing teacher education institutions
1. They have affiliating function.
 2. They accord recognition to College of Education.
 3. **They have to get the recognition of the government on one hand, affiliation of the University on the other hand.**
 4. They conduct examinations and issue certificates at the under-graduate level of teacher education.
25. The aim of Adolescence Education Programme (AEP)
1. To provide interest- based, well organized complete vocational education to adolescents which will help them get a better job opportunity.
 2. To ignite the mind of Adolescent youth to value their innate potential and nurture their creative ideas through hard work.
 3. **To empower young people with accurate, age appropriate and culturally relevant information, promote healthy attitudes and develop skills to enable them to respond to real life situations in positive and responsible ways.**
 4. To teach them the basics of entrepreneurship and educate them to take up small funding businesses in future.
26. When did the National Population Education Project initiated?
1. **1979**
 2. 1964
 3. 1977
 4. 1985

27. As per RTI Act 2005, which one is true regarding the time limit for filing the appeals?

1. **First appeal should be filed within 30 days from the expiry of the prescribed time limit or from the receipt of the decision.**
2. Second appeal should be filed within 90 days from the expiry of the prescribed time limit or from the receipt of the decision.
3. First appeal should be filed within 90 days of the date on which the decision was given or should have been given by the second appellate authority.
4. Second appeal should be filed within 30 days of the date on which the decision was given or should have been given by the first appellate authority.

28. When was the Universal Declaration of Human Rights (UDHR) adopted by the General Assembly in India?

1. **10th December 1948**
2. 10th December 1950
3. 20th August 1947
4. 26th January 1948

29. Complete the sentence with appropriate word. According to NCF 2005, Secondary school is a period of intense physical change and formation of _____

1. ideas
2. **identity**
3. cognition
4. relations

30. Select the odd one out from the list of different streams given below.
1. the science stream
 2. the commerce stream
 3. **the aesthetics stream**
 4. the arts stream
31. The number of intelligences in the Multiple Intelligences theory is
1. Three
 2. Five
 3. Nine
 4. **Seven**
32. Performing simple arithmetic tasks promote
1. Verbal reasoning
 2. **Quantitative reasoning**
 3. Abstract reasoning
 4. Short term memory
33. Encouraging students to come out with novel ideas will develop
1. **Creativity**
 2. Intelligence
 3. Emotional Intelligence
 4. Self esteem

34. Reading and writing involve
1. Trial & error learning
 2. Cognitive learning
 3. **Psychomotor learning**
 4. Conditioning
35. A student learning to be punctual to the class is punctual to function
1. Imitation
 2. Preparation
 3. Transference
 4. **Transfer of learning**
36. Assessment during the course of instruction rather than after it is completed
1. Summative Assessment
 2. Continuous and Comprehensive Assessment
 3. Pre Instructional Assessment
 4. **Formative Assessment**
37. The general knowledge a student has about the world is
1. Episodic Memory
 2. Short Term Memory
 3. **Semantic Memory**
 4. Implicit Memory

38. A state of fulfillment in which people realize their highest potential
1. Self efficacy
 2. **Self actualization**
 3. Deindividuation
 4. Identification
39. Test in which an ambiguous stimulus is shown to a person and asked to describe it is
1. **Projective test**
 2. Self report measure
 3. Structured interview
 4. Sentence completion test
40. A student to deal with his examination stress prepares a study schedule,
1. Adaptation
 2. **Problem focused coping**
 3. Assimilation
 4. Emotion focused coping

CONTENT

41. The length, breadth and depth of an underground water tank are 2m, 1m and 3m respectively then the capacity of tank in litres is
1. 6
 2. 60
 3. 600
 4. **6000**
42. A car covers half the distance at a speed of 60 kmph and the other half at $100/9 \text{ ms}^{-1}$, the average speed of the car is
1. **48 kmph**
 2. 50 kmph
 3. $75/4 \text{ kmph}$
 4. $320/9 \text{ kmph}$
43. If a force of 12N produces an acceleration of 6ms^{-2} on a mass m_1 and 3 ms^{-2} on mass m_2 then the acceleration produced by the same force on both the masses tied together is
1. 6 ms^{-2}
 2. $4/3 \text{ ms}^{-2}$
 3. **2 ms^{-2}**
 4. 0

44. The position of the image when the object is placed in between F and C of a concave mirror
1. **beyond C**
 2. at focal point
 3. at centre of curvature
 4. at pole
45. The characteristic property of sound that changes when we increase the loudness of sound of a T.V. is
1. speed
 2. **amplitude**
 3. frequency
 4. wavelength
46. If 10g of ice at 0°C is mixed with 10g of water at 50°C then the resultant temperature of the mixture is
1. 25°C
 2. 100°C
 3. 50°C
 4. **0°C**
47. A uniform wire of resistance 10Ω is melted and recast into a wire of length three times that of the original, then the resistance of the wire newly formed is
1. 30Ω
 2. **90Ω**
 3. 10Ω
 4. $10/3\Omega$

48. A charged particle 'q' is moving with a speed 'v' perpendicular to the magnetic field of induction 'B', its path is
1. straight line
 2. elliptical
 3. **circular**
 4. triangular
49. If a body contains 'n' number of positive and 'n' number of negative charges, on rubbing it loses x charges. The number of positive and negative charges present on the body are
1. **n positive, (n - x) negative charges**
 2. (n - x) positive, (n - x) negative charges
 3. (n + x) positive, (n + x) negative charges
 4. (n - x) positive, n negative charges
50. 'Uttarayanam' means
1. Moon looks like travelling towards north of the Sky.
 2. Earth looks like travelling towards north of the Sky
 3. **Sun looks like travelling towards north of the Sky**
 4. Pole star looks like travelling towards north of the Sky

51. Length of two bodies are measured as $l_1 = (20 \pm 0.5)$ m and $l_2 = (50 \pm 0.5)$ m. The difference in length and error in the measurement is
1. **(30 ± 1) m**
 2. (30 ± 0) m
 3. (30 ± 0.25) m
 4. (30 ± 0.10) m
52. If the vertical component of a vector is equal to its horizontal component then the angle made by the vector with x-axis is
1. **45°**
 2. 30°
 3. 0°
 4. 90°
53. The power of the machine gun is 2KW, it fires 300 bullets per minute of mass 5g each then the velocity of each bullet is
1. 600 ms^{-1}
 2. **400 ms^{-1}**
 3. 500 ms^{-1}
 4. 300 ms^{-1}
54. The fringe separation in Young's double slit experiment when the slits are separated by 0.28 mm and the screen is placed 1.4 m away (the light of wavelength 600 nm is used) is
1. 1.2×10^{-10} m
 2. 3 cm
 3. **3 mm**
 4. 0.3 mm

55. A tuning fork vibrates at 350 Hz and the speed of sound in air is 350 ms^{-1} . The length of the shortest organ closed pipe that will resonate with the tuning fork is
1. 50 cm
 2. 1 cm
 3. 100 cm
 4. **25 cm**
56. A body cools down from 80° C to 50° C in 5 minutes. The time taken by the same body to cool down from 60° C to 30° C is (room temperature = 20° C)
1. 5 minutes
 2. less than 5 minutes
 3. depends on mass of the substance
 4. **more than 5 minutes**
57. A 200 pf capacitor is charged by a 100 V supply. It is then disconnected from the supply and is connected to another uncharged 200 pf capacitor. The electrostatic energy lost in this process is
1. $2 \times 10^{-6} \text{ J}$
 2. $0.5 \times 10^6 \text{ J}$
 3. **$0.5 \times 10^{-6} \text{ J}$**
 4. $2 \times 10^6 \text{ J}$

58. An LCR series circuit with $L = 100 \text{ mH}$, $C = 100 \text{ }\mu\text{F}$, $R = 120 \text{ }\Omega$ is connected to an AC source. Resonating frequency of the circuit is close to
1. 100 Hz
 2. **50 Hz**
 3. 0 Hz
 4. 311 Hz
59. The angular momentum of an electron in the hydrogen atom is $\frac{3h}{2\pi}$. Here h is Plank's constant. The kinetic energy of this electron is
1. 4.35 eV
 2. **1.51 eV**
 3. 3.4 eV
 4. 6.8 eV
60. When a base current in a Transistor is changed from $30 \text{ }\mu\text{A}$ to $80 \text{ }\mu\text{A}$, the collector current changes from 2.0 mA to 4.5 mA then the current gain is
1. 0.02
 2. 20
 3. **50**
 4. 5

61. The following condition will increase the evaporation of water

1. Less exposed surface area of water
2. **Increase in temperature of water**
3. Decrease in temperature of water
4. Adding impurities to water

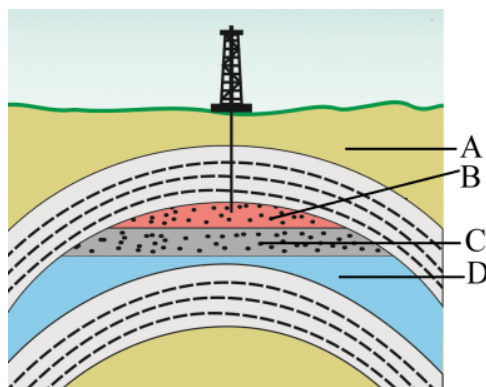
62. Acid rains are the combination of

1. **carbonic acid + nitric acid + rain water**
2. carbonic acid + acetic acid + rain water
3. acetic acid + sulphuric acid + rain water
4. nitric acid + acetic acid + rain water

63. The incorrect statement regarding “burning test of fibers”

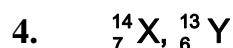
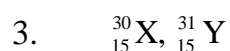
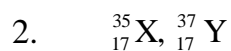
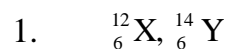
1. Silk gives smell like burning hair
2. Cotton gives smell like burning paper
3. **Nylon gives smell like burning hair**
4. Acrylic melts in the flame and shrinks

64. The figure A, B, C, D represents the layers of earth. Which among the following is correct



1. A – Earth's crust, B – Water, C – Petroleum, D – Natural gas
 2. A – Earth's crust, B – Petroleum, C – Water, D – Natural gas
 3. A – Earth's crust, B – Water, C – Natural gas, D – Petroleum
 4. **A – Earth's crust, B – Natural gas, C – Petroleum, D - Water**
65. The colourless, odourless, combustible and a renewable source of energy is
1. Nitrogen gas
 2. Carbon dioxide gas
 3. Carbon monoxide gas
 4. **Hydrogen gas**
66. On converting 35°C, 73°C and 85°C in to Kelvin scale, the correct sequence of temperatures will be
1. 308 K, 346 K, 368 K
 2. 308 K, 336 K, 358 K
 3. **308 K, 346 K, 358 K**
 4. 308 K, 356 K, 368 K

67. Identify the pair which is not Isotopes.



68. In the following sequences of atomic numbers, the sequence that represents 'representative elements'

1. **3, 20, 13, 17**

2. 11, 22, 15, 10

3. 19, 11, 16, 18

4. 14, 10, 3, 18

69. Valence shell electron pair repulsion theory mainly failed to explain

1. Bond angles of the molecules

2. Electron pair repulsion

3. **Strength of the bonds**

4. Lone pair – bond pair repulsion

70. The IUPAC name of $\text{CH}_3 - \underset{\text{CH}_3}{\text{CH}} - \text{CH}_2 - \text{CH}_2 - \overset{\text{CH}_3}{\underset{\text{CH}_3}{\text{C}}} - \text{CH}_3$ is

1. 2, 5, 5 - trimethyl hexane

2. **2, 2, 5 - trimethyl hexane**

3. 2 - methyl, 5, 5 - dimethyl hexane

4. 5, 5 - dimethyl, 2 - methyl hexane

71. The Kinetic energy of 5 moles of nitrogen gas at 27°C is
[$R = 8.314\text{ Joule K}^{-1}$]
1. 18.706 J
 2. 62382 J
 3. 1647.1 J
 4. **18706.5 J**
72. The correct statement about aqueous solution of an acid and a base
1. Higher the p^{H} , strong acid; higher the p^{H} , weak base
 2. Lower the p^{H} , strong acid; lower the p^{H} , strong base
 3. Lower the p^{H} , weak acid; lower the p^{H} , strong base
 4. **Lower the p^{H} , strong acid; lower the p^{H} , weak base**
73. The correct order of increasing ionic character of hydrides of alkali metals is
1. $\text{NaH} > \text{CsH} > \text{RbH} > \text{LiH} > \text{KH}$
 2. $\text{RbH} > \text{CsH} > \text{NaH} > \text{KH} > \text{LiH}$
 3. **$\text{LiH} < \text{NaH} < \text{KH} < \text{RbH} < \text{CsH}$**
 4. $\text{LiH} > \text{NaH} > \text{CsH} > \text{KH} > \text{RbH}$
74. In the presence of reducing agents like lithium aluminum hydride or diborane, carboxylic acid R-COOH gives
1. R-CHO
 2. $\begin{array}{c} \text{R}' \\ \diagdown \\ \text{C}=\text{O} \\ \diagup \\ \text{R} \end{array}$
 3. R-O-R
 4. **$\text{R-CH}_2\text{OH}$**

75. This is produced on heating of tetra fluoro ethane with free radical or per sulphate catalyst at high pressure,
1. Bakelite
 2. Melamine
 3. **Teflon**
 4. Nylon 6.6
76. The only covalent halide of alkaline earth metal which is soluble in organic solvents is
1. MgCl_2
 2. CaCl_2
 3. **BeCl_2**
 4. BaCl_2
77. The tendency of catenation in group-14 elements follows the order
1. $\text{C} > \text{Si} > \text{Sn} > \text{Ge}$
 2. **$\text{C} \gg \text{Si} > \text{Ge} \approx \text{Sn}$**
 3. $\text{Si} > \text{C} > \text{Sn} > \text{Ge}$
 4. $\text{Ge} > \text{Sn} > \text{Si} > \text{C}$
78. The consequence of Global Warming is
1. **Increase in average temperature of the earth**
 2. Formation of Himalayan Glaciers
 3. Increased biochemical oxygen demand
 4. Increased chemical oxygen demand

79. In saponification the glyceryl esters of fatty acids are treated with
1. Aqueous magnesium hydroxide
 2. **Aqueous sodium hydroxide**
 3. Aqueous lithium hydroxide
 4. Ethanol solution
80. The pair of ions having same electronic configuration is
1. Sc^{3+} , Cr^{3+}
 2. **Fe^{3+} , Mn^{2+}**
 3. Fe^{3+} , Co^{3+}
 4. Cr^{3+} , Fe^{3+}
81. The fact about *Lactobacillus* and *Thiomargarita namibiensis* respectively is
1. Both are available in human digestive tract.
 2. It absorbs nutrients by way of osmosis – it swallows food material
 3. **It can be seen through microscope – it can be seen unaided eye**
 4. It turns milk into curd – it turns curd into milk
82. The characteristic of E-Horizon is
1. It is found between B-Horizon and C-Horizon
 2. **Allows dripping of minerals and water through it to next horizons**
 3. It contains clay and mineral deposits
 4. It is made up of humus

83. Antibiotics can kill
1. Virus only
 2. **Bacteria only**
 3. Virus and Bacteria
 4. All micro organisms
84. The ascending sequence of hierarchical order in systematics is
1. Species – genus – order – family – class – phylum – kingdom
 2. Species – genus – class – family – order – phylum – kingdom
 3. Species – genus – family – class – order – phylum – kingdom
 4. **Species – genus – family – order – class – phylum – kingdom**
85. When anti-‘A’ and anti-‘B’ sera are added to two blood samples of two persons, agglutination is appeared. These samples respectively belong to
1. **Blood group – ‘AB’**
 2. Blood group – ‘B’, ‘A’
 3. Blood group – ‘O’
 4. Blood group – ‘A’, ‘B’
86. Collenchyma are characterised by the presence of
1. isodiametric cell wall with thickening all over the cell wall
 2. soft, thin wall with large air cavities
 3. **elongated (longer) cells with thick wall**
 4. elongated (longer) cells with thin wall

87. Identify the correct statements.
- A. Plants with tap root system have leaves with reticulate venation
 - B. Plants with fibrous root system have leaves with reticulate venation
 - C. Plants with tap root system have leaves with parallel venation
 - D. Plants with fibrous root system have leaves with parallel venation
- 1. A, D and C
 - 2. **D and A**
 - 3. B and C
 - 4. C, B and D

88. A student saw 20-5-10 on a fertilizer bag. The numbers on the bag represent respectively are
- 1. Phosphorus - Nitrogen - Potassium
 - 2. Nitrogen - Zinc - Potassium
 - 3. Nitrogen - Potassium - Super Phosphorus
 - 4. **Nitrogen - Phosphorus - Potassium**

89. Identify the incorrect one

<u>Excretion</u>	-	<u>Secretion</u>
1. same in nature	-	same in nature
2. active in nature	-	passive in nature
3. involves in movements of materials	-	involves in movements of materials
4. Ex: Tears	-	Ex: resins

90. In the process of inhalation in human beings
1. **the internal pressure of lungs decreases**
 2. the internal pressure of lungs increases
 3. the volume of the chest cavity decreases
 4. the ribs stop the expansion of lungs
91. The organs that donot carryout digestion in human beings
1. Large intestine, small intestine, rectum
 2. **Oesophagus, large intestine, rectum**
 3. Buccal cavity, oesophagus, large intestine
 4. Oesophagus, Buccal cavity, rectum
92. The term plants was used by these scientists in their classification of living beings.
1. Linnaeus, Chatton
 2. Haeckel, Chatton
 3. Woese et al, Cavilier-smith
 4. **Copeland, Whittaker**
93. The correct statement about G1 phase
1. Cell is metabolically inactive
 2. **DNA in the cell does not replicate**
 3. It is not a phase of synthesis of macromolecules
 4. Cell stops growing

94. The symptoms of Folic acid deficiency are
1. Scaly skin, Paralysis
 2. Walking problem, Fracture of bones
 3. Dermatitis, loss of memory
 4. **Loss of leucocytes, intestinal mucus problems**
95. In human beings the blood capillaries do not contain this character.
1. **These are microscopic double layered vessels**
 2. The leucocytes can squeeze out of the capillary wall
 3. They allow diffusion of various substances
 4. They establish continuity between arteries and veins
96. The correct order of dominant and recessive traits of pea plant selected by Mendel respectively
1. Flower colour : white - purple
 2. Pod shape : constricted - inflated
 3. **Flower position : axial - terminal**
 4. Pod colour : yellow - green
97. To consider a soil as an organic soil the minimum percentage of organic matter it should contain is
1. 20%
 2. 50%
 3. **30%**
 4. 60%

98. One of the following is not a characteristic of desert ecosystem.
1. Decomposers are few
 2. Succulent cacti are present
 3. Thermophilic fungi and bacteria are present
 4. **Roots are not much branched and not extensive**
99. Regarding the process of cloning of Dolly the correct statement is
1. A cell from mammary gland of Scottish black face ewe was used
 2. An egg of Finn Dorset ewe was used
 3. Dolly was given birth by Finn Dorset ewe
 4. **Dolly was given birth by Scottish black face ewe**
100. Flamingos can be seen in these sanctuaries
1. Krishna and Kinnerasani
 2. Pranahitha and Kawal
 3. **Koringa and Kolleru**
 4. Pakala and Eturunagaram
101. Carpogonium is the female sex organ of
1. *Ectocarpus*
 2. ***Polysiphonia***
 3. *Laminaria*
 4. *Fucus*

102. Pick the incorrect statement.
1. The mycelium of 'algal fungi' is aseptate and multinucleate
 2. **The sexual spores of 'sac fungi' are called conidiospores**
 3. The sex organs are absent in 'bracket fungi'
 4. The 'imperfect fungi' reproduce only by means of asexual or vegetative structures.
103. Unisexual flowers are seen in
1. *Crotalaria* and Carrot
 2. *Achyranthus* and *Oryza*
 3. ***Colocasia* and *Ficus***
 4. *Solanum* and *Cassia*
104. The endosperm cell of a plant has 24 chromosomes. The number of bivalents formed in pachytene stage of meiosis-I are
1. **8**
 2. 16
 3. 24
 4. 48
105. The location of the NADP reductase in thylakoid membrane of chloroplast is towards
1. Stromal side of PS II
 2. **Stromal side of PS I**
 3. Lumen side of PS II
 4. Lumen side of PS I

106. Inheritance of flower colour in snapdragon is an example for

1. Pseudo dominance
2. over dominance
3. Codominance
4. **Incomplete dominance**

107. Assertion : Sulphur deficiency symptoms first appear in the immature organs.

Reason : Sulphur is highly mobile in plants.

1. Both A and R are true. R is correct explanation for A
2. Both A and R are true. R is not correct explanation for A
3. **A is true. R is false**
4. A is false. R is true

108. Match list I with list II and select the correct answer using the codes given below the lists.

List-I

List-II

- | | |
|----------------|---------------------------------|
| A) Transferase | I. Fructose-1, 6-bisphosphotase |
| B) Hydrolase | II. Glutamine synthase |
| C) Lyase | III. Hexokinase |
| D) Ligase | IV. Argino succinase |

- | | A | B | C | D |
|----|------------|----------|-----------|-----------|
| 1. | II | I | III | IV |
| 2. | III | II | I | IV |
| 3. | III | I | IV | II |
| 4. | I | II | IV | III |

109. Identify the incorrect sequence of steps in polymer chain reaction (PCR) cycle.

1. Annealing → extension → denaturation
2. **Denaturation → annealing → extension**
3. Extension → denaturation → annealing
4. Annealing → denaturation → extension

110. The hybrid plant 'Pomato' was developed through

1. Genetic engineering
2. Hybridisation
3. **Somatic hybridisation**
4. Mutation breeding

111. Assertion (A) : Species is an ecological unit
Reason (R) : It shares same ecological niche

1. **Both A and R are true. R is correct explanation for A**
2. Both A and R are true. R is not correct explanation for A
3. A is true. R is false
4. A is false. R is true.

112. Pick up the secondary lymphoid organ from the following.

1. Bursa fabricius of birds
2. Bone marrow of mammals
3. Thymus gland of mammals
4. **Spleen of mammals**

113. In nervous tissue, the supporting cells developed from mesoderm are

1. Astrocytes
2. **Microglial cells**
3. Ependymal cells
4. Satellite cells

114. The digestive juice with steapsin

1. Gastric juice
2. Bile juice
3. **Pancreatic juice**
4. Intestinal juice

115. The causative organism of the disease ring worm is

1. *Salmonella*
2. *Streptococcus*
3. Rhinovirus
4. ***Microsporum***

116. Match the following

	List -1		List – 2	
A.	Fossa ovalis	I.	Pulmonary arch	
B.	Bundle of His	II.	Post caval vein	
C.	Eustachian valve	III.	Inter atrial septum	
D.	Semilunar valves	IV.	Inter ventricular septum	
		V.	Atrio ventricular septum	
	A	B	C	D
1.	I	II	V	III
2.	II	V	I	IV
3.	IV	I	III	II
4.	III	IV	II	I

117. Study the following and pick up the mismatched pair.

1. Gonorrhoea - *Neisseria*
2. Syphilis - *Treponema*
3. AIDS - Human Immunodeficiency Virus
4. **Cervix cancer** - ***Trichomonas***

118. Karyotype of Klinefelter's syndrome is

1. AA + XO
2. **AA + XXY**
3. AAA + XX
4. AA + XY

119. The gases responsible for green house effect are

1. **Methane, Carbon dioxide**
2. Carbon dioxide, Ozone
3. Carbon dioxide, Sulphur dioxide
4. Carbon monoxide, Methane

120. Study the following statements and pick up the correct one

1. Carcinoma is the cancer of connective tissues
2. Leukemia is the cancer of epithelial tissues
3. **Sarcoma is the cancer of connective tissues**
4. Lymphoma is the cancer of nervous tissue

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METHODOLOGY

121. Science discovers knowledge
1. From ancient texts or revelations of inspired individuals.
 2. From personal insight, or insight of others
 3. **From evidence generated by observation or by experimentation.**
 4. From personal feelings and perceptions
122. This is an example for scientific hypothesis
1. It's bright and hot outside.
 2. **When the sun is out, it tends to make it bright outside**
 3. It's bright outside because it is day time.
 4. The temperature outside today is 32°C
123. Writing the similarities and differences between a copper wire and a glass slab is an example of
1. **Observing**
 2. Hypothesizing
 3. Communicating
 4. Inferring
124. The odd one out of the following is
1. Skepticism
 2. **Inferring**
 3. Open mindedness
 4. Respecting others opinion

125. "Principia" and "Opticks" are pioneering works of
1. Copernicus
 2. **Newton**
 3. Galileo
 4. Einstein
126. The ancient Indian scholar who calculated the exact value of pi
1. Varahamitra
 2. Bhaskaracharya
 3. **Aryabhatta**
 4. Brahmagupta
127. The concept that Einstein banished from Physics
1. Photo electricity
 2. Relativity
 3. Electromagnetic Induction
 4. **Ether**
128. The person who awarded the Nobel Prize in recognition of discovery of the elements Radium and Polonium is
1. **Marie Curie**
 2. Arrhenius
 3. Rutherford
 4. Ramsay

129. A teacher comparing image formation in Camera with Human Eye is an example of
1. Correlation of Chemistry and biology
 2. Correlation of Physics and Chemistry
 3. **Correlation of Physics and Biology**
 4. Correlation of Physics and Art
130. A person who engages in critical thinking, research, and reflection possesses this value
1. Aesthetic value
 2. Moral value
 3. **Intellectual value**
 4. Cultural value
131. This is an aim of science teaching
1. do not develop critical observation and thought
 2. **provides training to student in scientific method**
 3. more useful to the teacher
 4. will not prepare students for a vocation in science
132. This is a specific behaviour of affective domain
1. Understands nature of science
 2. **Appreciates beauty of science**
 3. Applies principles of science
 4. Sets up an experiment of science

133. This is an example of manipulation skill
1. Explaining the formation of stars
 2. **Arranging apparatus for preparation of oxygen**
 3. Comparing lunar and solar eclipse
 4. Defining light year
134. The hierarchical structure of Cognitive domain is
1. Evaluation, Knowledge, Synthesis, Application
 2. Application, Synthesis, Evaluation, Knowledge,
 3. Synthesis, Knowledge, Application, Evaluation
 4. **Knowledge, Application, Synthesis, Evaluation**
135. A student who uses kinetic molecular theory to explain rates of reactions is at this level of cognitive domain
1. Evaluation
 2. Analysis
 3. Synthesis
 4. **Application**
136. This method gives more emphasis on teacher presentation and has no place for the participation of the students
1. Project method
 2. **Lecture method**
 3. Heuristic method
 4. Laboratory method

137. A teacher who begins the lesson narrating about Newton and the apples falling down is using this method

1. Demonstration method
2. Lecture – Demonstration method
3. **Historical method**
4. Project method

138. The principle of teaching through deductive method is

1. **From general to particular**
2. From specific to general
3. From illustrations to law
4. From concrete to abstract

139. This is a pre instruction micro skill

1. stimulus variation
2. closure
3. reinforcement
4. **set induction**

140. Making different Optical instruments like Microscope and Telescope is

1. Drill type project
2. Problem type project
3. **Producer type project**
4. Consumer type project

141. This is not considered by a science teacher while preparing a year plan
1. Number of units in syllabus
 2. Number of science periods per week
 - 3. Number of learning activities to be included**
 4. Number of working days per year per term
142. The step which precedes Presentation in Herbartian lesson plan is
1. Recapitulation
 - 2. Introduction**
 3. Comparison
 4. Generalisation
143. This topic will be included in a unit plan on 'Motion'
- 1. Laws of Motion**
 2. Units of Measurement
 3. Collisions and Impulse
 4. Simple Harmonic Motion
144. This is an example for contrived experience
1. Finding mass of an object
 - 2. Planetarium**
 3. Role play
 4. Motion pictures

145. The most abstract experience of the following
1. Recordings
 2. Demonstration
 3. **Verbal symbols**
 4. Visual symbols
146. Out of the following this is a projection device
1. DVD
 2. Hard disc
 3. Microphone
 4. **OHP**
147. Chart is an example for
1. Audio visual aid
 2. Audio aid
 3. Activity aid
 4. **Graphic aid**
148. This is included in Good laboratory work practices
1. smelling and tasting chemicals
 2. not washing hands before and after lab
 3. **not confining to long hair and loose clothing**
 4. using damaged equipment and glassware

149. The Register in Science lab which has details of glassware – funnels, beakers, burettes etc., only is
1. Permanent stock register
 2. **Breakable stock register**
 3. Consumable stock register
 4. Order register
150. The chemical substance that has to be kept in water in the Science lab is
1. Potassium
 2. Iodine
 3. **Phosphorus**
 4. Carbon di sulphide
151. If an acid is splashed on the skin accidentally in the lab, it should be washed at once with plenty of water and then with.....
1. soap.
 2. oil.
 3. **weak base.**
 4. lime water.
152. Repetition of Newton's Laws of motion at same level of difficulty in classes 7th and 8th lacks the quality of:
1. Horizontal organization
 2. **Vertical organization**
 3. Relevancy
 4. Flexibility

153. Knowledge is compartmentalized in:
1. Learner centred curriculum
 2. Activity centred curriculum
 3. **Subject centred curriculum**
 4. Experience centred curriculum
154. This is a Science museum being run by an NGO
1. Centre for Cellular and Molecular Biology, Hyderabad
 2. Visvesvaraya Industrial & Technological Museum, Bengaluru
 3. Council of Scientific and Industrial Research, New Delhi
 4. **B.M. Birla Science Centre, Hyderabad**
155. This is not a characteristic of Science Exhibition
1. Students think and work like a scientist
 2. Original concept, publishable
 3. Planning and designing an experiment is required
 4. **Inquiry, question, and problem are not part of this activity**
156. The type of question which would be the best to use to introduce a new topic is
1. A low order question
 2. A close-ended question
 3. A question that calls for convergent thinking
 4. **A question that calls for divergent thinking**

157. Questioning in the class-room
1. **Clarifies the subject-matter**
 2. Develops inactivity
 3. Is a wastage of time
 4. Creates indiscipline
158. This could be most effectively documented by an anecdotal record
1. Improvement in drawing skills
 2. Progress in computational skills
 3. Problem solving ability
 4. **Problem of adjustment in project work**
159. An evaluation that is generally carried out at the end of a course to assign students a course grade is called
1. Diagnostic evaluation
 2. Formative evaluation
 3. Placement evaluation
 4. **Summative evaluation**
160. The objective which could be properly assessed by performance assessment
1. Student will interpret the periodic table
 2. **Student will find out the width of a glass slab**
 3. Student will distinguish facts from scientific facts
 4. Student will define atomic number