

**DEECET – 2022**

**(PART - A)**

**Teaching Aptitude – SET – 2**

1. The meaning of the Greek word “Philos” is
  1. Wisdom
  2. Learning
  3. Knowing
  4. Love
  
2. The Academic authority to develop textbooks for school Education in our state is
  1. SCERT, Andhra Pradesh
  2. SSA, Andhra Pradesh
  3. NCERT, New Delhi
  4. SIET, Andhra Pradesh
  
3. RTE – 2009 Act related to
  1. Teachers Salaries
  2. Adult Education
  3. Free and compulsory Education to 6 to 14 years age group children
  4. Right to Information Act
  
4. Expand ECCE
  1. Early child character and Education
  2. English course on continuing Education
  3. Early child control and Education
  4. Early childhood care and Education

5. If majority of students in your class are weak you should
1. keep your teaching slow
  2. not care about them
  3. keep your teaching slow along with some extra guidance to bright pupil
  4. suggest them to read guides

### **G. K. – SET - 2**

6. Kanjeevaram Silk is famous in the state of
1. Tamilnadu
  2. Kerala
  3. Karnataka
  4. Telangana
7. The martial art of Andhra Pradesh
1. Kathi Samu
  2. Silambam
  3. Parikhand
  4. Thoda
8. The “International Teacher’s Day” is celebrated on
1. 5<sup>th</sup> September
  2. 8<sup>th</sup> March
  3. 1<sup>st</sup> January
  4. 5<sup>th</sup> October

9. The headquarter of “Reserve Bank of India” is located at
1. Bengaluru
  2. Mumbai
  3. Hyderabad
  4. New Delhi
10. The full form of “IPL” is
1. Indian Premier League
  2. Indo – Pakistan League
  3. International Premier League
  4. Indian Players League

### **English – SET – 2**

11. A person who knows many languages
1. linguist
  2. polyglot
  3. grammarian
  4. bilingual
12. I finished my project work several days \_\_\_\_\_  
of the deadline.
1. ahead of
  2. instead of
  3. in spite of
  4. according to

13. He was fond \_\_\_\_ Jimmy.

1. in
2. to
3. of
4. at

14. Would you like a \_\_\_\_\_ of cake.

1. piece
2. peace
3. piese
4. peece

15. Find the passive form for the following sentence

The dog chased the cat.

1. The cat chases the dog.
2. The cat was chased by the dog.
3. The cat is chased by the dog.
4. The cat chased by the dog.

## **Telugu – SET – 2**

16. కింది వాటిలో “అల్పప్రాణాలు”తో ఏర్పడిన పదం

1. ఖగం
2. తల
3. రథం
4. ఫలం

17. కింది వాటిలో “చ” వర్గకు చెందిన అక్షరం

1. జ
2. న
3. ప
4. ట

18. కింది వాటిలో సంయుక్తాక్షరం గల పదాన్ని గుర్తించండి.

1. పట్టణం
2. నన్ను
3. గొర్రె
4. దర్బారు

19. “కాళ్ళా వేళ్ళా పడు” - ఈ జాతీయానికి అర్థం

1. ఎవరు పట్టించుకోక పోవడం
2. బాగా అభ్యాసం కల
3. బ్రతిమలాడు
4. దుఃఖించు

20. ‘బ్రహ్మ’ పదానికి వికృతి

1. బామ్మడు
2. బామ్మ
3. బ్రాహ్మ
4. బమ్మ

## 1<sup>st</sup> Language English – SET – 2

21. Fill in the blank with right form of the verb  
Indian Cricket team \_\_\_\_\_ (win) the trophy in 2017.
1. won
  2. will win
  3. wins
  4. winning
22. A person who goes from place to place to mend pots, pans etc.,
1. carpenter
  2. sculptor
  3. goldsmith
  4. tinker
23. Our family 'move in' to the new house once it was white washed.  
Choose the meaning of the phrasal verb " move in" from the following
1. Make progress
  2. start living in a place
  3. remove
  4. move to lower level

24. What does the following sentence mean?

Could I use your pen , please?

1. giving advice
2. Asking permission
3. asking a question
4. making an offer

25. She wants to become \_\_\_\_ engineer.

1. a
2. the
3. an
4. no article

26. Sravani goes to school \_\_\_\_\_ Sudha daily.

1. along with
2. in front of
3. by means of
4. inspite of

27. Mrs.Slater is a vigorous woman.

Find the synonym and antonym of the word 'vigorous' from the following.

1. lazy, sharp
2. boring,exciting
3. powerful, weak
4. beautiful, ugly

28. Find the wrongly spelt word from the following
1. receipt
  2. amaze
  3. announcement
  4. honour
29. \_\_\_\_\_ he was a good mechanic, he couldn't repair the car.
1. although
  2. since
  3. because
  4. besides
30. A personal document of a person to store his/her emotions, thoughts, or feelings.
1. bioigraphy
  2. description
  3. notice
  4. diary entry

### **Mathematics – SET - 2**

31. The maximum number in the common factors of the numbers 504, 792, 1080
1. 4
  2. 5
  3. 6
  4. 7



32. The length of the quadrilateral is twice to its breadth. If the perimeter is 48c.m, the length of the quadrilateral is.
1. 16 cm
  2. 8 cm
  3. 15 cm
  4. 9 cm
33. A motor bike can travel 62.5 k.m with 1 litre of petrol. With 10 litres of petrol how much distance can it travel?
1. 525 km
  2. 625 km
  3. 635 km
  4. 265 km
34. If the ratio of diameters of two circles is 3:4, then find the ratio of their perimeters?
1. 4:3
  2. 2:3
  3. 3:2
  4. 3:4
35. A tank with capacity of 50 litres can be filled in 5 hours. If the capacity of the tank is 75 litres, how many hours does it take to fill?
1.  $7\frac{1}{2}$
  2.  $8\frac{1}{2}$
  3.  $9\frac{1}{2}$
  4.  $7\frac{1}{3}$

36. For the principal amount of Rupees 12000, the interest rate is 10 % for the period of  $1\frac{1}{2}$  years. If the interest is compounded for 6 months how much interest has to be paid?

1. Rs. 3972
2. Rs. 3872
3. Rs. 3672
4. Rs. 4072

37. The owner of a house enhancing the rent at the rate of 5% per annum. If the present rent is Rs.2500 then how much rent has to pay after two years?

1. Rs. 2756.25
2. Rs. 2756.50
3. Rs. 2678.25
4. Rs. 2678.50

38. If the polynomials  $x^3 + ax^2 + 5$  and  $x^3 - 2x^2 + a$  are divided by  $(x+2)$  leave the same remainder, find the value of  $a$ .

1.  $-\frac{13}{3}$
2.  $\frac{13}{3}$
3.  $\frac{14}{3}$
4.  $-\frac{14}{3}$

39. Length of the shadow of a 15mts. high pole is  $5\sqrt{3}$ mts. at 7 ° clock in the morning. Then what is the angle of elevation of the Sun rays with the ground at that time?

1.  $70^\circ$

2.  $60^\circ$

3.  $90^\circ$

4.  $30^\circ$

40. Product of the roots of a quadratic equation is

1.  $\frac{a}{b}$

2.  $\frac{c}{a}$

3.  $\frac{d}{a}$

4.  $\frac{a}{c}$

**General Science – SET – 2**  
**(Biology)**

41. The immovable joints are present in

1. Knee

2. Shoulder

3. Neck

4. Skull

42. Non insectivorous plant
1. Drosera
  2. Nepenthes
  3. utricularia
  4. dodder
43. The synthetic fibre which is generally called “fake fur” is
1. Acrylic
  2. Rayon
  3. Nylon
  4. Silk
44. Malphigian tubules are secretory organs in
1. earth worm
  2. housefly
  3. flat worm
  4. hen
45. The digestive Juice without enzyme is
1. Bile juice
  2. Gastric juice
  3. Pancreatic juice
  4. Saliva

## General Science SET-2

### Physical Science

46. The process which add water vapour to the atmosphere is
1. Solidification
  2. Precipitation
  3. Condensation
  4. Evaporation
47. A freely suspended magnet always comes to rest in direction of
1. North - East
  2. South - West
  3. East - West
  4. North - South
48. If two mirrors are kept at an angle of  $180^\circ$  between them, then the number of images formed will be
1. 1
  2. 2
  3. 3
  4. 4
49. Which of the following is the unit of acceleration
1.  $\text{ms}^{-1}$
  2.  $\text{ms}^{-2}$
  3. Newton
  4.  $\text{ms}^2$

50. Formula for Aluminium Oxide is

1.  $\text{Al}_3\text{O}$
2.  $\text{Al}_2\text{O}_3$
3.  $\text{AlO}_2$
4.  $\text{AlO}_3$

### **Social Studies – SET – 2**

51. International Date line

1.  $180^\circ$  longitude
2.  $0^\circ$  longitude
3.  $0^\circ$  latitude
4.  $90^\circ$  latitude

52. A flat – topped table lands standing above the surrounding area

1. plateaus
2. mountains
3. plains
4. oceans

53. Ruling by a king or queen is called

1. Democracy
2. Government
3. Parliament
4. Monarchy

54. The word “Sikh” means
1. prophet
  2. teacher
  3. student
  4. leader
55. Which is used extensively in electrical and electronic industry?
1. Chromium
  2. Mica
  3. Barytes
  4. Asbestos
56. “Sare Jahase Achaha” was written by
1. Mohammed Iqbal
  2. Rabindranath Tagore
  3. Bankim Chandra Chatterjee
  4. Sarojini Naidu
57. In Telugu the first talkie movie was
1. Alam Ara
  2. Bhakta Prahalada
  3. Bhishma Pratigna
  4. Mana Desham
58. Dowry prohibition act was made in the year
1. 1959
  2. 1961
  3. 1963
  4. 1965

59. The following is a working capital

1. Tools
2. Machines
3. Raw material
4. Buildings

60. "Do or Die" slogan was given by

1. Jawaharlal Nehru
2. Tilak
3. Mahatma Gandhi
4. Subash Chandra Bose



**DEECET – 2022**  
**(PHYSICAL SCIENCE)**  
**SET – 1**

61. The dimensional formula of volume
1.  $M^{\circ} L^3 T^{\circ}$
  2.  $M^{\circ} LT^{-1}$
  3.  $M^{\circ} LT^{-2}$
  4.  $M L^{-3} T^{\circ}$
62. Which of the following is vector quantity
1. speed
  2. displacement
  3. mass
  4. time
63. Calculate the time needed for a net force of 5N to change the velocity of a 10kg mass by 2m/s
1. 4 s
  2. 5 s
  3. 7 s
  4. 3 s

64. Work done by the resistive force of air on vibrating pendulum

in bringing it to rest

1. positive
2. zero
3. negative
4. may be positive or negative

65. Find the torque of a force  $7\hat{i} + 3\hat{j} - 5\hat{k}$  about the origin. The force acts on a particle whose position vector is  $\hat{i} - \hat{j} + \hat{k}$

1.  $2\hat{i} + 12\hat{j} + 10\hat{k}$
2.  $2\hat{i} + 12\hat{j} - 10\hat{k}$
3.  $-2\hat{i} + 12\hat{j} + 10\hat{k}$
4.  $2\hat{i} - 12\hat{j} - 10\hat{k}$

66. What is the length of a simple pendulum, which ticks seconds

1. 1 m
2. 3 m
3. 2 m
4. 2.5 m

67. Which of the following physical quantity is dimensionless

1. strain
2. stress
3. Young's modulus
4. Bulk modulus

68. Substances having very small coefficient of linear expansion, among

the following is

1. Copper
2. Iron
3. Aluminium
4. Gold

69. Which of the following is not a thermodynamic state variable

1. Pressure
2. Volume
3. Temperature
4. Work

70. S.I unit of viscosity is

1. N/m
2.  $\text{N/m}^2$
3. Poiseuille
4. Pascal

71. One waxing and waning constitute

1. one beat
2. two beats
3. half beat
4. no beat

72. A person can see objects only at a distance greater than 40cm. He is advised to use lens of power:
1.  $-2.5\text{ D}$
  2.  $+2.5\text{ D}$
  3.  $-6.25\text{ D}$
  4.  $+1.5\text{ D}$
73. The phenomenon which is not explained by Huygen's construction.
1. reflection
  2. refraction
  3. diffraction
  4. origin of spectra
74. The number of Electrons present in 1C of charge
1.  $4.25 \times 10^{18}$
  2.  $6.25 \times 10^{18}$
  3.  $3.25 \times 10^{18}$
  4.  $2.25 \times 10^{18}$
75. The electromagnetic waves which are used in medicine to destroy cancer cells
1. Infrared waves
  2. Visible rays
  3. Gamma rays
  4. ultraviolet rays

76. The mathematical form of Ampere's loop

1.  $\phi = \vec{E} \cdot \vec{ds} = \frac{q}{\epsilon_0}$

2.  $\oint \vec{B} \cdot \vec{dl} = \mu_0$

3.  $\oint \vec{B} \cdot \vec{dl} = \mu_0 I$

4.  $\oint \vec{B} \cdot \vec{dl} = \epsilon_0 I$

77. Which of the following is not a ferromagnetic substance

1. Cobalt

2. Iron

3. Nickel

4. Aluminium

78. Which of the following is capacitive reactance ( $X_c$ )

1.  $\frac{1}{\omega C}$

2.  $\omega C$

3.  $\frac{1}{\sqrt{\omega C}}$

4.  $\sqrt{\omega C}$

79. According to Debroglie the wave length  $\lambda$  associated with a particle of momentum "p" is given by

1.  $\lambda = \frac{h}{mv}$

2.  $\lambda = \frac{p^2}{mv}$

3.  $\lambda = \frac{mv}{h}$

4.  $\lambda = \frac{p}{h}$

80. Frequencies in the UHF range normally propagate by means of
1. Ground waves
  2. Sky waves
  3. Surface waves
  4. space waves

### **Chemistry – SET – 1**

81. The line spectrum of hydrogen obtained in the ultraviolet region of light corresponds to
1. Lyman series
  2. Balmer series
  3. Paschen series
  4. Brackett series
82. Eka – aluminium and Eka – Silicon are known as
1. Gallium and germanium
  2. Aluminium and Silicon
  3. Iron and Sulphur
  4. Neutron and magnesium
83. Identify the wrongly matched pair of molecule and its shape
- |                         |   |                    |
|-------------------------|---|--------------------|
| 1. methane              | – | tetrahedral        |
| 2. ammonia              | – | trigonal pyramidal |
| 3. sulphur hexafluoride | – | hexagonal          |
| 4. carbondioxide        | – | linear             |

84. The falling drop of water is spherical due to
1. Hydrogen bonding
  2. Vapour pressure
  3. Viscosity
  4. Surface tension
85. Which of the following atom shows only single oxidation number?
1. hydrogen
  2. fluorine
  3. manganese
  4. chromium
86. At absolute zero, the entropy of a perfect crystal is zero.  
This statement correspond to which law of thermodynamics?
1. zeroth law
  2. first law
  3. second law
  4. third law
87. The pH of  $10^{-8} M$  *HCl* is
1. 8
  2. 7
  3. Between 7 and 8
  4. Between 6 and 7

88. Permanent hardness of water is caused due to the presence of dissolved
1. calcium carbonates
  2. calcium chloride
  3. calcium bicarbonate
  4. calcium sulphide
89. The stability of the following alkali metal chlorides follows the order
1.  $LiCl > KCl > NaCl > CsCl$
  2.  $CsCl > KCl > NaCl > LiCl$
  3.  $NaCl > KCl > LiCl > LiCl$
  4.  $KCl > CsCl > NaCl > LiCl$
90. Ammonia gas can be dried by
1. Conc  $H_2SO_4$
  2.  $P_2O_5$
  3.  $CaCl_2$
  4. Quick lime
91. The following metal oxide which is anti – ferromagnetic in nature
1.  $MnO$
  2.  $TiO_2$
  3.  $VO_2$
  4.  $CrO_2$



92. The units of mole fraction of a compound in solution are

1.  $\text{mol L}^{-1}$
2.  $\text{mol Kg}^{-1}$
3.  $\text{gL}^{-1}$
4. none of these

93. Faraday's law of electrolysis is related to

1. Atomic number of the cation
2. Speed of the cation
3. Speed of the anion
4. Equivalent weight of the electrolyte

94. For which of the following reactions units of rate and rate constant are same

1. zero order reaction
2. first order reaction
3. second order reaction
4. third order reaction

95. A colloidal system in which liquid is dispersed and solid is dispersion medium is classified as

1. gel
2. sol
3. emulsion
4. aerosol

96. Atomicity of phosphorous is
- 1.
  - 2.
  - 3.
  - 4.
97. Which of the following is not an amphoteric ion?
1.  $Al^{3+}$
  2.  $Cr^{3+}$
  3.  $Fe^{3+}$
  4.  $Zn^{2+}$
98. According to Werner's theory of coordination compounds
1. Primary valency is ionisable
  2. Secondary valency is ionisable
  3. Primary and Secondary valencies are ionisable
  4. Neither primary nor secondary valency is ionisable
99. The conversion of maltose into glucose is possible by the enzyme
1. zymase
  2. lactase
  3. maltase
  4. diastase
100. Which of the following cannot reduce fehling's solution
1. Formic acid
  2. Acetic acid
  3. Formaldehyde
  4. Acetaldehyde