

SPARKS



SPARKS

(Saahasam Promoting Activities for Raising Knowledgeable Students)

Regd No: 244/2016, Chandhuluru, L.kota(M), Vizianagaram,A.P

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SPARK TEST -1

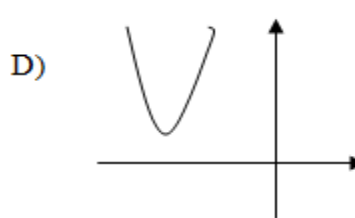
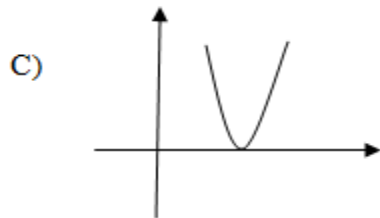
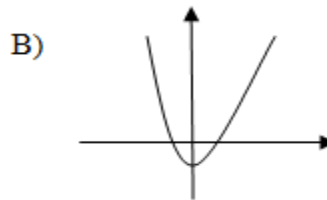
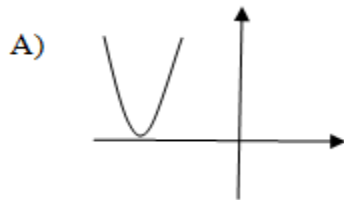
Time : 3 Hours

Marks : 120

INSRUCTIONS FOR THE CANDIDATE

1. Answer ALL the Questions.
2. Each Carries one mark.
3. No Negative Marks for wrong answer.

1. Which of the following is the graph of $b^2 - 4ac > 0$? ()



2. The swampy and marshy region is ()
A) Terai B) Bhabar C) Doan D) Pakli Dun
3. When incident angle is equal to critical angle then angle of Refraction is ()
A) 66° B) 45° C) 30° D) 90°
4. The Movements that facilitate equal distribution of nutrients and oxygen in Amoeba are ()
A) Elsonian Movement B) Brownian Movement
C) Protoplasmic Movement D) Amozbiodyary Movement

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5. i) Epsom Salt [] A) $MgCO_3$ ()
 ii) Carnallite [] B) $MgSO_4 \cdot 7H_2O$
 iii) Magnacite [] C) $CaSO_4 \cdot 2H_2O$
 iv) Zypsum [] D) $KClMgCl_2 \cdot 6H_2O$
 A) i)-b ii) – d iii) – a iv) – e B) i)-e ii) – d iii) – a iv) – b
 C) i)-b ii) – d iii) – c iv) – a D) i)-b ii) – d iii) – a iv) – c
6. $7 \times 11 \times 13 + 13$ is ()
 A) a prime number B) a composite number C) an odd number D) divisible by 5
7. అమ్మతం అనే పదానికి నానార్థాలు రాయండి ()
 A) సున్నం – తాంబూలం B) విషం – నీరు C) నీరు – పీయూషం D) నిప్పు – నీరు
8. Rainbow is due to the properties of light ()
 A) Reflection B) Refractive C) Dispersion D) Scatleness
9. He got a job _____ (by means of / ahead of) his hardwork ()
10. $\cos 1^\circ \cdot \cos 2^\circ \cdot \cos 3^\circ \cdot \dots \dots \dots \cos 90^\circ$ ()
 A) 1 B) 0 C) -1 D) 90°
11. यह रूपेश किताब है ()
 A) को B) की C) ने D) के
12. Though he was not prime minister in 1984, a prime minister apologised for the riots against Sikhs at that time who is he? ()
 A) Rajiv Gandhi B) Dr. Manmohan Singh C) Narendra Modi D) smt. Indira Gandhi
13. In bacterium cellular respiration takes place in ()
 A) MitoChondria B) Cytoplasm C) Both A & B D) Cell Membrane
14. At STP 2.0 gm H_2 gas occupies... ()
 A) 2.24e B) 22.4e C) 1 mole D) B and C
15. Latest Conference of IPCC was held at ()
 A) Russia B) Delhi C) Worsaw D)Switzerland
16. Nkjnm,
17. విజ్ఞానం వికృతి పదం రాయండి ()
 A) విస్మయం B) వినయం C) విన్నాణం D) విజయం
18. మత్తేభం గణాలు ()
 A) మ,స,జ,స,త,త,గ B) స,భ,ర,న,మ,య,వ C) భ,ర,న,భ,భ,ర,వ D) న,జ,భ,జ,జ,జ,ర
19. I wish you were a little more helpful ()
 A) Complaining B) Hoping C) Ordering D) Stating

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20. Number of three digit numbers which are divisible by 7 is ()
A) 120 B) 124 C) 126 D) 130
21. High reactive metal ()
A) Copper B) Gold C) Silver D) Sodium
22. When the blood flows out, the platelets release an enzyme called ()
A) Haemoglobin B) Heparin C) Thrombokinase D) Cytokinase
23. Among these the metalloid ()
A) B B) S C) Ge D) All
24. The five year plans were introduced in Russia by ()
A) Lenin B) Gorki C) Kelensky D) Stalin
25. अठारह सौ सत्तावन ()
A) 1875 B) 1876 C) 1875 D) 1857
26. Probability of getting a vowel when a letter is taken from the word "QUESTION" ()
A) $\frac{1}{2}$ B) $\frac{3}{8}$ C) $\frac{1}{6}$ D) $\frac{2}{3}$
27. Symbol of Double Convex Lens ()
A) \rightarrow B) \updownarrow C) X D) \uparrow
28. The ore of Aluminium ()
A) Bauxite B) Rock salt C) Magnetite D) Galene
29. The volume of the dough increased in bread preparation due to ()
A) Diffusion B) Fermentation C) Distillation D) Evaporation
30. Subhash died.....(for the sake of/ due to) India's freedom.
31. दलीय शब्द का प्रत्यय क्या है ? ()
A) द B) दल C) अ D) इय
32. The distance between (x 1 , y 1) and (x 2 , y 2) is _____ ()
33. To escape from great depression Government had to provide employment by using funds was stated by ()
A) J.M Keynes B) Hajalmar Shocktick C) George Albert D) Adam Smith
34. రామలక్ష్మణులు అడవికి వెళ్లారు ! ఇది ఏ వాక్యం ? ()
A) సామాన్య వాక్యం B) సంక్లిష్ట వాక్యం C) సంయుక్త వాక్యం D) కర్తరి వాక్యం
35. Probability is defined by ()
A) Rene De Cartese B) George Canter C) Simeon Laplace D) Aaryabhata
36. acts as "Store houses for the Earth" ()
A) Lakes B) Tank C) Oceans D) Rivers
37. 1 Picometer = m ()
A) 10^{-8} B) 10^{-9} C) 10^{-12} D) 10^{-2}

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38. First General Elections were held in ()
A) 1947 B) 1949 C) 1952 D) 1950
39. If $A \cap B = \emptyset$ then $n(A \cup B) =$ ()
A) $n(A)$ B) $n(B)$ C) $n(A) + n(B)$ D) $n(A) - n(B)$
40. Saliva contains an enzyme called ()
A) Salivary Amylase or ptyalin B) Pepsin C) Trypsin D) Lipase
41. Degree of constant Polynomial ()
A) 0 B) 1 C) 2 D) 3
42. If $n(A) = 7$, $n(B) = 8$, $n(A \cap B) = 5$ then $n(A \cup B) =$ ()
A) 12 B) 10 C) 9 D) 6
43. Savitri is one such (prestige/ Prestigious) artist.
44. Radius of the circle passes through the point (2,3) with centre (0,0) ()
A) 2 units B) 3 units C) $\sqrt{13}$ units D) 5 units
45. If radius of curvature of a spherical mirror (R) = 14cm then the focal length = ()
A) 28cm B) 35cm C) 7cm D) 21cm
46. P^H Values of solution A, B, C are 7, 9, 12 which are stronger base ()
A) Solution B B) Solution C C) No Change D) None
47. Trade, Finance, community services come under Sector ()
A) Primary B) Secondary C) Service D) All of the Above
48. The digestive juice without enzyme is ()
A) Bile B) Gastric Juice C) Pancreatic Juice D) Saliva
49. 1908 कहलाता है ? ()
A) उन्नीस सौ सात B) उन्नीस सौ आठ C) उन्नीस सौ अस्सी D) उन्नीस सौ अठारह

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50. state gets most of the rainfall due to North-East Monsoon ()
A) Taminaadu B) Kerala C) Andhra Pradesh D) Karnataka
51. The fruits retaining its coolness for a long time after removing from fridge. What is the reason? ()
A) High Specific Heat of water B) The density of water C) Evaporation D) Condensation
52. Hardness of Diamond is due to ()
A) Sp^3 Hybridisation B) Cage Structure C) Both A & B D) Shiny nature
53. First plant hormone Auxin was discovered by ()
A) Charles B) Went C) Fleming D) Brown
54. If α, β are the zeroes of the polynomial $p(x) = 4x^2 + 3x + 7$, then $1/\alpha + 1/\beta$ is equal to ()
A) $7/3$ B) $-7/3$ C) $3/7$ D) $-3/7$
55. No of possible events when a die is rolled ()
A) n B) n^2 C) 2^n D) 6^n
56. We Can prevent of damage of overload by ()
A) Heater B) Meter C) Fuse D) Computer
57. Unification of Vietnam was in the year ()
A) 1974 B) 1965 C) 1975 D) 1980
58. కులీసం అనే పదానికి అర్థం ఏమిటి ? ()
A) చక్రాయుధం B) వజ్రాయుధం C) శకటాహాయుధం D) బ్రహ్మాస్త్రం
59. How careless of you to drop the camera ()
A) Complaining B) Scolding C) Warning D) Disagreeing
60. The Article under which president rule can be recommended? ()
A) Article 356 B) Article 365 C) Article 26 D) Article 372
61. If $\sin A = \cos A$ then $A =$ _____ ()
A) 0° B) 30° C) 45° D) 90°
62. Foetus is connected to the wall of uterus of the mother by ()

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A)Placenta B)Umbilical card C)Fallopian Tube D)Epididymis

63. बेहमान शब्द का उपसर्ग पहचानिए ! ()

A) बेह B) वि C) मान D) बे

64. Raju_____ (meet) his friend yesterday. ()

65. वारि शब्द का पर्याय शब्द ? ()

A) राहु B) सूर्य C) पानि D) चाँद

66. Number of solutions of a quadratic equation. ()

A)0 B)1 C)2 D)3

67. అన్యపదార్థ ప్రధానమైనది ? ()

A) ద్వీగు సమాసం B) ద్వంద్వ సమాసం C) బహువ్రీహి సమాసం D) రూపక సమాసం

68. Parthenogenesis occurs in ()

A)Bees B)Ants C)Wasps D)All

69. If A, B and C are collinear then area of ΔABC is ()

A) 0 sq units B)1 sq units C) $\frac{1}{2}$ sq units D)None

70. Find out wrong statements ()

A) Producers-Grasshopper B) Primary consumers-Grass
C) Decomposers-Fungi D)Tertiary consumers-Snake

71. Rancidation is a _____ reaction. ()

A) Reduction B)Thermal C)Oxidation D)None.

72. To rectify the vision doctors are advised to write_____ ()

A) Focal length of lens B)Power of lens C)Type of lens D)Size of lens.

73. which one the following is true about urethra ()

A) It is tube that takes urine from urinary bladder to outside.

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B) Opening of urethra is separate in females.

C) The opening of urethra is in common with the reproductive tract in males.

D) All the above.

74. If $A-B=A$ then ()

A) $A \subset B$ B) $B \subset C$ C) A and B are equal sets D) A and B are disjoint sets.

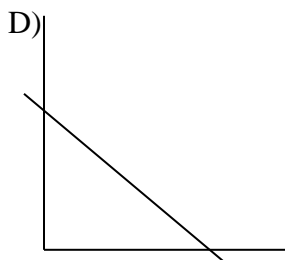
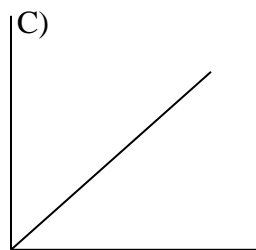
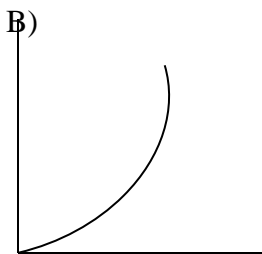
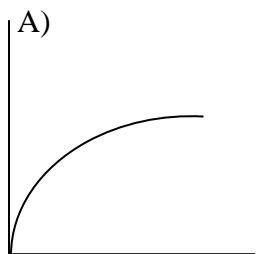
75. $\text{CuO(s)} + \text{H}_2\text{(g)} \xrightarrow{\text{HEAT}} \text{Cu(s)} + \text{H}_2\text{O(L)}$ find the substituent which reduced ()

A) Cu B) H_2 C) H_2O D) CuO.

76. Value of $\log_{3/5}(3^2/3^{125})$. ()

A) 5 B) $1/5$ C) 25 D) 1.

77. The relationship between V and I in ohmic Conductors. ()



78. AM of $a-2, a, a+2$ is _____ ()

A) $a-2$ B) a C) $a+2$ D) $2a$.

79. In voluntary functions are controlled by _____ nervous system. ()

A) Central B) Periferal C) Brain D) Autonomic.

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80. _____ group elements have higher values of electropositivity. ()
A) I B) VII C) XVIII D) III
81. The value of 'x' satisfies the equation $2x-(4-x)=16-x$ ()
A) 16 B) 20 C) 5 D) 7
82. _____ are using to transmit communicate signals. ()
A) Air B) Water C) Optical Fibre D) Vacuum.
83. Assertion (A): The bond angle in NH_3 is $107^{\circ}48'$
Reason(R): Repulsion between two bonded electrons ()
A). (A) true (R) false B) (A)false (R) true C)Both A&R true D)A,R True for A.
84. Rationalising factor of $\sqrt{2}$ ()
A) $\sqrt{98}$ B) $\sqrt{36}$ C) $\sqrt{22}$ D) $\sqrt{45}$.
85. Breathing roots are present in ()
A) Aquatic plants B) Mangroves C) Terrestrial Plants D) Desert plants.
86. If K^a, K^b, K^c are in GP then ()
A) $a-b = b+c$ B) $b-a = c-b$ C) $a+b = b+c$ D) $b-a = c+b$.
87. The image which we can't see with necked eye. ()
A) Virtual image B) Inverted image C)Erect Image D)Real Image
88. If $\text{Sin}\theta \times \text{Cosec}\theta = x$ then $x^2/2$. ()
A) 1 B) 1/2 C) 1/4 D) 1/5.
89. The specialized system developed to transport materials within the body of organisms is ()
A) Respiratory B) Excretory C) Circulatory D) Nervous
90. The ratio of volumes of two spheres is 8:27, The ratio of their surface area. ()
A)2:3 B) 4:27 C)8:9 D)4:9
91. _____ overlap present in acetylene. ()
A) S-Sp B)P-P C) Sp-Sp D) All

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92. α, β are zeros of the polynomial $P(x) = x^2 + 2x + 1$ then $1/\alpha + 1/\beta =$ _____ ()
A) 1 B) -1 C) 0 D) -2
93. The function of ATM cards depends on _____ ()
A) Electromagnetic Induction B) Right hand rule C) Left hand rule D) None
94. Probability of winning a game is 0.9995, then the probability of losing the game ()
A) 0.5 B) 0.005 C) 0.05 D) 0.1
95. The first carbon compound produced in laboratory? ()
A) Urea B) NH_4NO_3 C) HCN D) CaCl_2
96. The famous mathematician associated with finding the sum of first 100 natural numbers is ()
A) Pythagoras B) Newton C) Gauss D) Euclid
97. This is plant growth inhibitor ()
A) Auxins B) Abscisic acid C) Gibberellins D) Cytokinins
98. Quadratic function are used to find ()
A) Path of projectile B) Shapes satellite dish C) Path of rocket D) All of these
99. The device used to production of current ()
A) Generator B) Voltmeter C) Ammeter D) Galvanometer
100. $n(n+1)/2 = 55$ then $n = ?$ ()
A) 10 B) 100 C) 55 D) 110
101. which is correct ? ()
A) Add water to acid B) Add acid to water (drop by drop)
C) Both A & B are correct D) Add both water and acid at a time
102. Which two states share the water of Tungabhadra river ()
A) Karnataka & AP B) AP & Maharashtra
C) Karnataka & Maharashtra D) Karnataka & Kerala
103. Janhavi types 480 words in 15 minutes. How many words would she type in 5 minutes? ()

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(A) 140 (B) 150 (C) 160 (D) 170

104. If a, b, c are in GP then ()

A) $b=ac$ B) $b^2=\sqrt{ac}$ C) $a=\sqrt{bc}$ D) $b=\sqrt{ac}$

105. Splitting of water molecule during photosynthesis is known as ()

A) Emulsification B) Photolysis C) Electrolysis D) Hydrolysis

106. Surface area of sphere of radius 2:1cm is ()

A) 55.44 cm^2 B) 2772 cm^2 C) 50.28 cm^2 D) 115.5 cm^2

107. If the line $y = px - 2$ passes through the point $(3, 2)$, then the value of P is ()

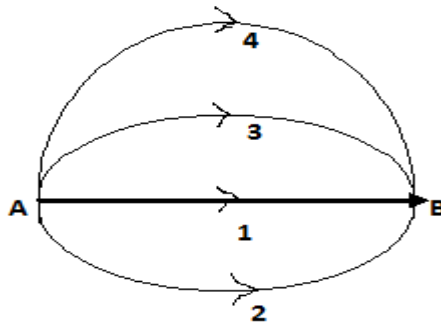
(A) $3/4$ (B) $4/3$ (C) 3 (D) 4

108. 20th century was called as age of extremes by ()

A) Eric Hobsbawn B) Roosevelt C) Roose D) Lenin

109. According to fermatt principle, the route which light travel from A to B ()

A) Route 2 B) Route 1 C) Route 4 D) Route 3



110. Sides of two similar triangles are in the ratio 4:9. Areas of these triangles are in the ratio ()

A) 2:3 B) 4:9 C) 81:16 D) 16:81

111. The following was not the members of state reorganisation committee in 1953. ()

A) Fazal Ali B) Fanikkar C) Hrudayanath Kunjru D) K.M. Munshi

112. Which of the following is not probability an event? ()

A) 0.7 B) 0.1 C) 1.1 D) 0.01

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113. The pair of orbitals which has same $[n+1]$ values ? ()
A) 3d,4p B)3s,3p C)2s,2p D)4s,4p
114. The air we breathe out precipitates_____ ()
A) Water B) Limewater C) Sodium hydroxide D)Sugar
115. When did india introduce emigration act? ()
A) 1981 B) 1982 C)1983 D) 1984
116. A circle may have___parallel tangents ()
A) 3 B) 2 C) 1 D) 4
117. Cumulative frequency is used to find ()
A) Mean B) Mode C)Median D)None
118. Who is the leader of bolsheviks during Russian revolution? ()
A)Lenin B)Stalin C) Kerensky D)Nicholas-II
119. $(2b+5)/(3b+7) = 3/5$, then value of ' b' is ()
A) -6 B) 6 C) -4 D) 4
120. Square root of 484 is ()
(A) 21 (B)42 (C) 22 (D)32

KEY SHEET

- | | | | |
|------|----------------|--|-------|
| 1. C | 5. D | 11. B | 17. C |
| 2. A | 6. B | 12. B | 18. A |
| 3. D | 7. C | 13. B | 19. B |
| 4. B | 8. C | 14. D | 20. C |
| | 9. By means of | 15. C | 21. D |
| | 10. B | 16. $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$ | 22. C |

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23. C	48. A	73. D	98. D
24. D	49. B	74. D	99. A
25. D	50. A	75. D	100. A
26. A	51. A	76. A	101. B
27. B	52. D	77. C	102. A
28. A	53. B	78. B	103. B
29. B	54. C	79. D	104. B
30. For the sake of	55. D	80. A	105. B
31. D	56. C	81. C	106. A
32. B	57. A	82. C	107. D
33. A	58. B	83. B	108. A
34. C	59. B	84. A	109. B
35. C	60. A	85. B	110. 2
36. C	61. C	86. B	111. D
37. C	62. A	87. A	112. C
38. C	63. D	88. B	113. A
39. C	64. Met	89. C	114. B
40. A	65. C	90. D	115. C
41. A	66. C	91. D	116. C
42. D	67. C	92. D	117. C
43. Prestigious	68. D	93. A	118. A
44. C	69. A	94. B	119. C
45. C	70. A	95. A	120. C
46. B	71. C	96. D	
47. C	72. B	97. A	