



SAAHASAM TRUST

(A Trust For Rural Educational Development)

Regd No : 244/2016, Chandhuluru, L.Kota, Vizianagaram, A.P - 535161

SPARKS 2019

(Saahasam Promoting Activities For Raising Knowledgeable Students)

Time: 2 Hours

Class: IX (EM)

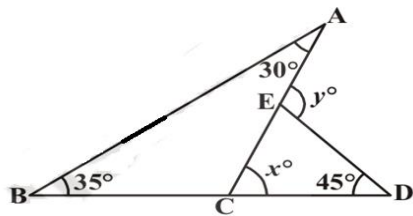
Marks:100M

INSTRUCTIONS FOR THE CANDIDATE

- Question paper have 100 questions
- Each question carries one mark.
- No negative mark for wrong answer.
- Ensure that you received correct question paper or not.
- Candidates will provided with OMR sheet for answers, bubble the answers for corresponding questions.
- Follow the instructions specified on OMR sheet.

- Find the value of $3 + 2\sqrt[3]{64} = \underline{\hspace{2cm}}$ []
 a) 16 b) 7 c) 9 d) 11
- If $\frac{a^p}{a^q} = a^{p-q}$, evaluate the equation when $a=0.1$ & $p=2019$, $q=2018$ []
 a) 1 b) 0.1 c) 2019 d) 0
- Which one of the following is not a polynomial []
 a) $4x^2 + 2x - 1$ b) $x + 1/x$ c) $x^3 - 1$ d) $y^2 + 5y + 1$
- The value of k , if $(x - 1)$ is a factor of $4x^3 + 3x^2 - 4x + k$, is []
 a) 1 b) 2 c) -3 d) 3
- Divide $3x^2 + x - 1$ by $x + 1$, find quotient and remainder []
 a) Quotient $= (3x + 2)$, Remainder $= -1$ b) Quotient $= (2x + 3)$, Remainder $= -1$
 c) Quotient $= (2x - 3)$, Remainder $= 1$ d) Quotient $= (3x - 2)$, Remainder $= 1$
- Find the factors of polynomial $8x^3 + 36x^2y + 54xy^2 + 27y^3$ []
 a) $(2x + 3y), (2x + 3y), (2x + 3y)$ b) $(2x + 3y), (2x + 3y), (2x - 3y)$
 c) $(2x - 3y), (2x - 3y), (2x - 3y)$ d) $(3x + 2y), (3x + 2y), (3x + 2y)$
- Point where 3 medians of a triangle meet is called the []
 a) incentre of the triangle b) Orthocenter c) circumcenter d) centroid
- If equals are subtracted from equals, the remainders are _____ []
 a) Unequals b) Squares c) Equals d) None of the above
- Which of the following are boundaries of a surface? []

- a) Lines b) Curves c) Surfaces d) Points
- 10) What do you call a figure formed by two straight lines having a common point? []
 a) Angle b) Triangle c) Rhombus d) Kite
- 11) An exterior angle of a triangle is 105° and its two interior opposite angles are equal. Each of these equal angles is _____ []
 a) $37\frac{1}{2}^\circ$ b) $52\frac{1}{2}^\circ$ c) $72\frac{1}{2}^\circ$ d) 75°
- 12) If a ray stands on a straight line, then the sum of the two adjacent angles so formed is _____ []
 a) 90° b) 270° c) 360° d) 180°
- 13) Using information given in the below figure, find the value of x and y []
 a) $x = 6.5^\circ$ and $y = 11^\circ$ b) $x = 65^\circ$ and $y = 10^\circ$ c) $x = 65^\circ$ and $y = 110^\circ$ d) $x = 165^\circ$ and $y = 110^\circ$



- 14) The point of the form (a,-a) always lies on the line []
 a) $x=a$ b) $y=a$ c) $x+y=0$ d) $y=-a$
- 15) The equation of $2x+5y=7$ has a unique solution, if x,y are []
 a) Natural numbers b) Real numbers c) Positive rational numbers d) Rational numbers
- 16) Any solution of the linear equation $2x+0y+9=0$ in two variables in the form of []
 a) $(-9/2,m)$ b) $(n,9/2)$ c) $(0, -9/2)$ d) $(0,9)$
- 17) Hema's age is 5.5 times the age of Mary. Write a linear equation in two variables to represent this information. []
 a) $x - 5y = 0$ b) $x + 5.5y = 0$ c) $10x - 55y = 0$ d) $x - y = 0$
- 18) Two triangles are _____ if two sides and the included angle of one triangle are equal to the two sides and the included angle of the other triangle []
 a) Congruent b) Non-congruent c) Right angle Triangle d) None of the above
- 19) ABC is a triangle. D is a point on AB such that $AD = \frac{1}{4} AB$ and E is a point on AC such that $AE = \frac{1}{4} AC$. If $DE = 2$ cm find BC. []
 a) 4.5 cm b) 7cm c) 12 cm d) None of the above
- 20) The sum of four angles in a quadrilateral is _____ []
 a) 4 right angles b) 90° c) 270° d) 180°
- 21) Rainfall of a place in a week is 2.5cm, 6cm, 8cm, 3.5cm, 3cm, 4cm, 8cm. Find the average (mean) rainfall per day []
 a) 7 b) 5 c) 8 d) 2
- 22) The following numbers are the sizes of shoes sold by a shop in a particular day. Find the mode. []
 6, 7, 8, 9, 10, 6, 7, 10, 7, 6, 7, 9, 7, 6, 6, 10, 9, 6
 a) 7 b) 8 c) 6 d) 9
- 23) The mean (average) weight of three students is 70 kg. One of the students Chandu weighs 73 kg. The other two students, Ganesh and Venu have the same weight. Find Ganesh weight. []

- a) 68.5 b) 73 c) 70 d) 86.5
- 24) When number of observations 'n' is odd, median is _____th observation. []
- a) $(\frac{n}{2})$ b) $(\frac{n-1}{2})$ c) $(\frac{n+1}{4})$ d) $(\frac{n+1}{2})$

25)

Marks	5	6	7	8	9	10
No.of Students	3	10	17	A	8	4

If the mean of the above data is 7.5 , then find the value of 'A'. []

- a) 17 b) 17.5 c) 18 d) 19
- 26) In plant cells, a cell wall composed of _____ is located outside the cell membrane []
- a) Cell b) Cellulose c) Glucose d) Plasma
- 27) Two types of plastids are present in cell . What are those []
- a) chromoplasts and leucoplasts b) Plasma and glucose
a. lipids and proteins d) None of the above
- 28) Major categories of plants tissues are []
- a) compound tissues b) simple tissues c) epidermal tissues d) both a and b
- 29) Meristematic tissues and permanent tissues are types of []
- a) endoplasmic tissues b) phloem tissues c) simple tissues d) xylem tissues
- 30) Tissues that help in transport of materials are called as _____. []
- a) Vascular tissues b) Ground tissues c) Dermal tissues d) Meristematic tissues
- 31) because of _____ protein blood is in red color []
- a) haemoglobin b) Blood platelets c) WBC d) all of the above
- 32) Which of the following are not a muscle type ? []
- a) striated muscle b) Bone muscle c) non-striated muscle d) cardiac muscle
- 33) All of the following are types of passive transport except []
- a) facilitated diffusion b) Endocytosis c) Diffusion d) Osmosis
- 34) What does Arthropod means? []
- a) bonus legs b) cartilaginous legs c) largest legs d) jointed legs
- 35) which one of the following is example for mollusca category []
- a) snakes b) cockroaches c) snails d) flies
- 36) _____ is the area of "No vision" where the optic nerve leaves the eye []
- a) Blind spot b) White spot c) Retina d) Fovea
- 37) Tongue contains nearly 10000 taste buds present on the _____ []
- a) Retina b) Papillae c) Incus d) Malleus
- 38) What is the depth of crust []
- a) 30 to 100 kms b) 3 to 1000 kms c) 100 to 2900 kms d) 2900 to 6376 kms
- 39) Latitude of Equator is _____ []
- a) 180° b) 90° c) 0° d) 360°
- 40) How much percentage of freshwater concentrated in lakes ? []
- a) 29.9% b) 0.26% c) 26% d) 68.7%

- 41) the activeness of South West monsoon in India is affected by 'El Nino' and 'La Nino'. These are the effects caused by the changes of temperature in The _____ Ocean []
 a) Bay of Bengal b) Arctic c) Arabian d) Pacific
- 42) Which one of the following stage is not part of water cycle []
 a) Evaporation b) Precipitation c) Transportation d) Transition
- 43) Atmosphere is divided into how many layers based on density and temperature []
 a) 2 layers b) 3 layers c) 4 layer d) 5 layers
- 44) when air becomes cool, air pressure _____ []
 a) Increases b) Decreases c) No change d) None of the above
- 45) _____ is an Instrument that measures Humidity of air []
 a) Barometer b) Gyrometer c) Hygrometer d) Multimeter
- 46) Temperate cyclones occur when the cold, dry, denser air masses converge with _____, _____, _____ air masses []
 a) warm, dry, lighter b) cold, wet, lighter c) warm, wet, lighter d) warm, wet, denser
- 47) What is full form of WPI , CPI []
 a) World process Index, Corporation Postal Index
 b) Wholesale Price Index , Consumer Price Index
 c) Wholesale Price Index , Corporation Postal Index
 d) World Process Index , Consumer Price Index
- 48) What is the effect of rise in food inflation []
 a) Living standards of the common people b) Industrialists
 b) Living standards of the rich people d) None of the above
- 49) What Reserve Bank of India does whenever there is price rise? []
 a) Increase money circulation in the economy b) Decrease money circulation in the economy
 b) Demonetization d) None of the above
- 50) By controlling the interest rate, the amount of money circulated in the country _____ []
 a) Constant b) Incline c) Decline d) None of the above
- 51) Condensation, evaporation, precipitation, rainfall, cyclones etc. occur in _____ layer []
 a. Troposphere b) Stratosphere c) Mesosphere d) Thermosphere
- 52) Two important types of transport during the Industrial revolution were _____ and _____ []
 a) Road; air b) air; rail c) water; air d) water; rail
- 53) Which is the first country to experience modern industrialisation? []
 a) India b) Britain c) USA d) France
- 54) _____ power was first used in mining industries []
 a) Steam b) Wind c) Hydraulic d) Solar
- 55) Civil war means _____ []
 a) A war between two countries b) A war within a country between different parties or regions
 c) A war between India , Pakistan d) A war between two continents
- 56) Which of the following county is struggling to built stable democratic system []
 a) India b) England c) USA d) Pakistan
- 57) In which year Libya became independent from Italy []
 a) 1947 b) 1951 c) 1991 d) 2010

- 58) The political party National League for Democracy (NLD) led by _____ []
 a) Suu Kyi b) Aung San c) Burmese military d) None of the above
- 59) _____ is the largest producer of bajra []
 a) Andhra Pradesh b) Karnataka c) Uttar Pradesh d) Rajasthan
- 60) What is the new agriculture policy made by Indian government during second phase (1966-1990)? []
 a) Increasing Irrigation and Building Dams b) Green Revolution and its spread
 c) Post Reform Agriculture d) None of the above
- 61) Effects of green revolution []
 a) Decrease in production b) No water problems
 c) Increase in production, Ground water problems, Fertilizer problems d) No effects
- 62) India's cropping seasons are _____ []
 a) Only rabi b) Only kharif c) Only zaid d) All of the above
- 63) Solid carbon dioxide changes its state to gaseous when _____ []
 a) Pressure is increased b) Temperature is increased
 c) Density is decreased d) Pressure is decreased
- 64) Select the odd one from the following options []
 a) H_2SO_4 b) Helium c) Rubber d) Crude Oil
- 65) The SI unit of acceleration is []
 a) $1/s^2$ b) m/s c) m/s^2 d) ms
- 66) When an object undergoes acceleration []
 a) Its velocity always increases. b) It always falls towards the earth
 c) A force always acts on it. d) It always falls towards the earth
- 67) An example of a triatomic molecule is _____ []
 a) Ozone b) Nitrogen c) Carbon monoxide d) Hydrogen
- 68) One mole of H_2O corresponds to []
 a) 22.4 litre at 1 atm and 250C b) 6.02×10^{23} atoms of hydrogen and 6.02×10^{23} atoms
 of oxygen c) 18 g d) 1 g
- 69) Atoms which have same mass number but different atomic number are called []
 a) Isotopes b) Isomers c) Isotones d) Isobars
- 70) An atom differs from its ion in []
 a) Nuclear charge b) Mass number c) Number of electrons d) Number of neutrons
- 71) As we go farther away from Earth, gravitational force becomes []
 a) Constant b) Stronger c) Weaker d) Positive
- 72) If an apple is taken to mountain top then its weight is []
 a) Decreased b) Increased c) Constant d) Infinite
- 73) Gravitational pull of Earth acting on body whether body is in contact with Earth or not, such force is known as []
 a) force of inertia b) force of limiting friction c) force of inertia d) field force
- 74) Fossil fuels are burnt to produce electricity in []
 a) thermal power b) chemical power c) nuclear power d) solar cars
- 75) Work done will be zero if the angle between force and distance is []
 a) 30° b) 90° c) 60° d) 180°

- 91) క్రింది పదమునకు సంధి పేరుతెలపండి []
 కవి + ఇంద్రుడు = కవీంద్రుడు
 a) సవర్ణదీర్ఘసంధి b) గుణసంధి c) యణాదేశసంధి d) అనునాశికసంధి
- 92) క్రింది వాక్యములలో కర్తరి వాక్యమును కనుగొనండి []
 a) విశాల్ పుస్తకాన్ని చదివాడు b) పుస్తకం విశాల్ చే చదువబడెను
 c) మ్యూజియం స్వప్న చే చూడబడెను d) పరీక్షలు రమేష్ చే రాయబడెను
- 93) 'కాయగూరలు' అనే పదం ఏ సమాసము అనేది గుర్తించండి []
 a) ద్వీగుసమాసం b) ద్వంద్వ సమాసం c) కర్మధారయ సమాసం d) తత్పురుష సమాసం
- 94) క్రింది వాటిలో 'స్నేహము' అనే ప్రకృతి పదమునుకు వికృతి పదమును గుర్తించండి []
 a) సన్నాహము b) నేహము c) సీహము d) నెయ్యము
- 95) 'సముద్రతీరం' అనే పదమునకు విగ్రహవాక్యమును గుర్తించండి []
 a) సముద్రము యొక్క తీరం b) సముద్రమైన తీరం c) సముద్రమునకు తీరం d) సముద్రము మరియు తీరం
- 96) पास का विलोम शब्द चुनो []
 a) बड़ा b) गरीब c) दूर d) देश
- 97) अध्यापक का स्त्रीलिंग चुनो []
 a) अध्यापका b) अध्यापिका c) अधपके d) अड्यापका
- 98) नीचे दिए गए वाक्य का काल चुनो : []
एक ऐसी क्रिया जो सम्पन्न हो रही है ।
 a) भूतकाल b) वर्तमानकाल c) भविष्यकाल d) पूर्णभूतकाल
- 99) नीचे दिए गए वाक्य से क्रिया विशेषण पहचानिये : []
राजा विद्यालय से रोजघर जाताहै ।
 a) राजा b) विद्यालय c) घर d) जाता
100. धरती का पर्यायवाची शब्द चुनो []
 a) पृथ्वी b) आकाश c) पाताल d) जल