KARNATAKA RESIDENTIAL EDUCATIONAL INSTITUTIONS SOCIETY,BENGALURU. MODEL QUESTION PAPER:2020-21

MULTIPLE CHOICE QUESTIONS

SET-1

Subject	: MATHEMATICS			Duration: 1hour
Class: 1	10 th Standard			Maximum Marks: 40
Four a	lternatives are gi	iven for each of th	e following incomp	olete statement/question.
Choos	e the most appro	priate alternative	and shade the corr	rect choice in the OMR
given t	to you with blue /	black ball point p	pen.	
1.	In an A.P if $a=28$	3, $d=-4$ and $n=7$ the	$en a_n = \dots$	
	A) 4	B) 5	C) 3	D) 7
2	If the first term of	of an A Dis 2 and a	amman diffaransa i	s -3 then its n th term is
2.				
	A) 2-3n	B) 3-2n	C) -1-3n	D) 5-3n
3.	In an A.P $a_n=2n-$	1 and $a_{n+1}=2n+1$. I	ts common difference	ce is
	A) -2	B) 0	C) 1	D) 2
	, and the second	•	,	•
4.	If a, b, c is in A.l	P then correct relat	ion from the followi	ng is
	A) $2b=a-c$	B) a+c=2b	C) b=c-a	D) b=a+c
5.	Sum of first n od	ld natural numbers		
	A) n^2	B) 2n	C) $\frac{n(n+1)}{2}$	D) n(n+1)
6.	If $x + y = 0$ and	x - y = 6, then the	values of x and y ar	re respectively
	A) 3 and 3	B) 3 and -3	C) 0 and 3	D) -3 and 0
	•	,	,	,
7.				4 and $6x - ky = 8$ have
	infinitely many s	solutions,then the v	alue of k is	
	A) - 4	B) 4	C) 8	D) 1
8.	If a pair of linea	r equations in two	variables is consiste	nt then the lines represented
	by two equations	s are		
	A) Intersecting		B) Parallel	
	_	idant	D) Intersecting &	Coincident
	C) Always coinc	luciit	D) Intersecting &	Comeluent

- A) 3x+2y=45
- B) 2x+3y=45
- C) 2x+y=45
- D) 2x+3y=45

3x+4y=50

3x+4y=50

3x + y = 50

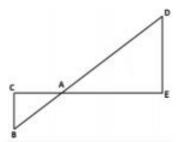
2x + 4y = 50

- 10. The length of tangent drawn to a circle of radius 5cm is 12 cm. Then the distance of external point to the centre of circle is.............
 - A) 7cm
- B) 17cm
- C) 14cm
- D) 13cm
- 11. In the figure, secant of the circle with centre 'O' is
 - A) XY
- B) OP
- C) MN
- D) AB
- 12. In a circle, the angle between the tangent and the radius at the point of contact is....
 - A) 45°
- B) 90°
- C) 60°
- D) 30°
- 13. Maximum number of tangents drawn to a circle from an external point is......
 - A) 1
- B) 2
- C) 3
- D) 4
- 14. In the figure, $\triangle ADE \sim \triangle ABC$. If AE=10cm, BC=3.5cm and DE =7cm then AC=......
 - A) 3.5 cm

B) 5cm

C) 7.5 cm

D) 10cm



15. In $\triangle ABC$, if $\angle ADE = \angle ABC$ as shown in figure.

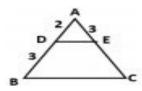
Then CE =

A) 4.5 cm

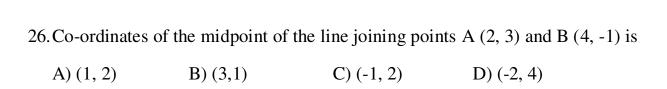
B) 3 cm

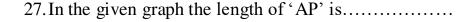
C) 5 cm

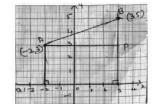
D) 6 cm



16. If $\triangle ABC \sim \triangle DEF$, $BC = 3cm$, $EF = 4cm$ and area of $\triangle ABC = 54cm^2$ then						
the area of ΔDEI A) 25cm^2		C) 100cm ²	D) 108cm ²			
17. In ΔPQR, if PQ= A) 45	=10cm, QR= 8cm ar B) 60 °	nd PR=6 cm then, ∠ C) 80°	$\mathbf{R} = \dots$ D) 90°			
tangents to be 60	o, then the measure	of angle between the	h that, the angle between the he radii to be taken is,			
A) 90°	B) 30 ^o	C) 180°	D) 120 ^o			
19. In the figure, $\Delta A'$ ΔABC with the s		similar to the	A ^A			
A) $\frac{4}{5}$	B) $\frac{1}{5}$		В			
C) $\frac{5}{4}$	$D)\frac{1}{4}$		B ₄ B ₂ B ₃ B ₄ B ₅			
20. The degree of a d	quadratic equation i	s	A			
A) 1	B) 3	C) 2	D) 4			
21. The discriminant	of a quadratic equa	ation is				
A) b^2 -2ac	B) b^2 -4ac	C) b^2 -ac	D) a^2 -4bc			
22. Quadratic equation	on among the follow	wing is				
A) $x(x-1)=0$	B) 2x+7=y	C) x^2 -x(x+4) =0	D) $2(x-3) = 0$			
23. Standard form of	a quadratic equation	on is				
A) $ax^2+bx+c=0$	B) $ax+bx^2-c=0$	C) $ax^2+by+c=0$	D) $bx^2+c=a$			
24. The product of t form is	_	sitive integers is 306	6. Its quadraticEquation			
A) $x^2 + x - 306 = 0$	B) x^2 -x+306=0	C) $x^2+x+306=0$	D) x^2 -x-306=0			
25. The distance between A) 5 units	_	0, 5) and B(-5, 0) is C) 5 $\sqrt{2}$ units				







- A) 2 units B) 5 units
- C) 3 units D)4 units
- 28. The coordinates of the point which divides the join of (x_1, y_1) and (x_2, y_2) in the ratio m_1 : m_2 internally, are

$$\text{A)}\left(\frac{m_1x_2-m_2x_1}{m_1-m_2} \ , \frac{m_1y_2-m_2y_1}{m_1-m_2}\right) \qquad \text{B)}\left(\frac{m_1x_2+m_2x_1}{m_1+m_2} \ , \frac{m_1y_2+m_2y_1}{m_1+m_2}\right)$$

$$\text{C)}\left(\frac{m_1x_2-m_2x_1}{m_1+m_2} \right., \frac{m_1y_2-m_2y_1}{m_1+m_2}\right) \qquad \text{D)}\left(\frac{m_1x_2+m_2x_1}{m_1-m_2} \right., \frac{m_1y_2+m_2y_1}{m_1-m_2}\right)$$

- 29. Area of the triangle with vertices P(0, 6), Q(0,2) and R(2, 0) is......
 - A) 4 square unit B) 0
- C) 8 square unit
- D) 6 square unit.
- 30. The ratio of the length of a tree and its shadow is $1:\sqrt{3}$, the angle of sun's elevation is
 - $A)60^{0}$

- B) 45^{0}
- $C) 30^{0}$
- D) 90^{0}

- 31. The ratio of $Sin\Theta$ is
 - $A) \frac{oppositeside}{hvnotenuse}$ B)
 - B) $\frac{Adjacentside}{hypotenuse}$
 - $(C) \frac{hypotenuse}{Adjacentside}$ $(D) \frac{Oppositeside}{Adjacentside}$
- 32. The value of $\sin 90^{\circ} + \cos 60^{\circ}$ is
 - A)1

- $B)\frac{1}{2}$
- C) $\frac{2}{3}$ D) $\frac{3}{2}$

33. Formula to calculate mode for grouped frequency distribution is

A)
$$l + \left(\frac{f_1 - f_0}{2f_1 - f_0 - f_2}\right) Xh$$

B)
$$l + \left(\frac{f_1 - f_2}{2f_1 - f_0 - f_2}\right) Xh$$

C)
$$l + \left(\frac{f_1 - f_0}{2f_0 - f_1 - f_2}\right) Xh$$

D)
$$l + \left(\frac{f_1 + f_0}{2f_1 + f_0 + f_2}\right) X h$$

34. The midpoint of the class interval 5 - 25 is

- E) 5
- B) 10
- C) 15
- D) 20

35. The median class of the following distribution is _____

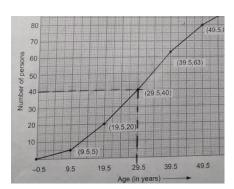
CI	0-10	10-20	20-30	30-40	40-50	50-60	60-70
F	4	4	8	10	12	8	4

- A) 20-30
- B) 30-40
- C) 40-50
- D) 50-60

36. If the following figure represents less than type of ogive

then the median is _____

- A) 9.5
- B) 19.5
- C) 29.5
- C) 39.5



37. If we join two hemispheres of same radius along their bases, then we get a;

- A) Cone
- B)Cylinder
- C)Sphere

D) Cuboids

38. If r is the radius of the sphere, then the surface area of the sphere is given By

A)4
$$\pi$$
 r²

B)2
$$\pi$$
 r²

C)
$$\pi$$
 r²

C)
$$\pi r^2$$
 D) $\frac{4}{3}\pi r^2$

39. If the slant height of a frustum of a cone is 4cm and radii of its two circular ends are 5cm and 2cm, then its curved surface area is

- A) $88 cm^2$
- B) $22cm^{2}$
- C) $48 cm^2$
- D) $108cm^{2}$

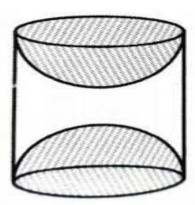
40. A wooden article is made by scooping out hemisphere from each end of the solid cylinder. The total surface area of the article is.....

$$A)2\pi rh + 4\pi r^2$$

B)
$$2\pi rh + \pi r^2$$

C)
$$2\pi rh + 2\pi r^2$$

D)
$$2\pi r (r+h)$$



MULTIPLE CHOICE QUESTION BASED PRACTICE PAPER-1

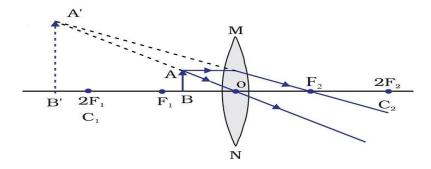
2020-21

CLASS -10	Max Marks - 40
CODE NO:83E	TIME : 1 Hour

Subject: Science

- 41. A wire of resistance R_1 is cut into five equal pieces. These five pieces of wire are then connected in parallel. If the resultant resistance of this combination be R_2 , then the ratio R_1/R_2 is:
 - A. 1/25
 - B. 1/5
 - C. 5
 - D. 25
- 42. The instrument used for measuring electric current is:
 - A. Ammeter
 - B. Galvanometer
 - C. Voltmeter
 - D. Potentiometer
- 43. An electric bulb is connected to a 220V generator. The current is 0.50 A. What is the power of the bulb?
 - A. 440 W
 - B. 110 W
 - C. 55 W
 - D. 0.0023 W
- 44. The potential difference across a 6Ω resistor is 12V. the current flow in the resistor will be
 - A. ½ A
 - B. 1 A
 - C. 2 A
 - D. 6 A
- 45. When the diameter of a wire is doubled, its resistance becomes
 - A. Double
 - B. Four times
 - C. One-half
 - D. One-fourth
- 46. A current carrying straight line conductor magnetic field lines are arranged like
 - A. Straight lines parallel to conductor
 - B. Straight lines perpendicular to conductor.
 - C. Concentric circles perpendicular to the plane of conductor
 - D. Concentric circles in the plane of conductor

- 47. The magnetic field inside a solenoid is
 - A. infinite
 - B. zero
 - C. Uniform
 - D. Non-uniform
- 48. The Part of a motor which change the direction of flow of current is
 - A. Armature
 - B. Brushes
 - C. Split rings
 - D. Magnets
- 49. The main component of biogas
 - A. Methane
 - B. Carbon dioxide
 - C. Hydrogen
 - D. Hydrogen sulphide
- 50. Optimal wind speed for power generation from wind mills
 - A. 5 km/hr
 - B. 8 km/hr
 - C. 15km/hr
 - D. 25km/hr
- 51. In the experiment of refraction of light through a glass slab, which of the following situation refraction of light takes place When the,
 - A. Angle of incidence is 90°.
 - B. Angle of incidence is more than 90°.
 - C. Angle of incidence is less than 90°.
 - D. Angle of incidence is 0° .
- 52. Observe the picture, relative size and nature of the image formed is



- A. Highly diminished, real and inverted
- B. Enlarged, real and erect
- C. Enlarged, virtual and erect
- D. Enlarged, real and inverted

53. The focal length of convex lens is 0.25 m calculate the power of lens A. +1D B. +2D C. +3D D. +4D
 54. A concave lens has focal length of 15 cm. At what distance should the object from the lens be placed so that it forms an image at 10 cm from the lens? A. +30cm B30mm C30cm D. +30mm
55. Which of the following is an olfactory indicator?A. Red cabbageB. LitmusC. TurmericD. Clove.
 56. Acid present in honey bee bite A. Methanoic acid B. Lactic acid C. Citric acid D. Tartaric acid.
 57. The pH value of the solutions A, B, C and D is 6, 3, 11 and 12. respectively. Which one of these has more acidic property? A. Solution A B. Solution B C. Solution C D. Solution D
 58. The element A is very soft in nature and can be cut with knife. This is very reactive to air and cannot be kept open. It reacts vigorously with water. Identify the element from the following. A. Mg B. Na C. P D. Ca
 59. Example for amphoteric oxide A. Na₂O B. Al₂O₃ C. K₂O D. CuO

- 60. The components used to fuse electrical wiresA. Iron and cobaltB. Copper and tinC. Iron and Nickel
 - D. Lead and tin
- 61. An example for saturated hydrocarbon is
 - A. Ethyne
 - B. Hexane
 - C. Propene
 - D. Butene
- 62. The hydro carbon which undergoes addition reaction is
 - A. C₂H₄
 - B. C₂H₆
 - C. C₃H₈
 - D. CH₄
- 63. While cooking, if the bottom of the utensil is getting blackened on the outside, it means that:
 - A. The food is not cooked completely.
 - B. The fuel is not burning completely.
 - C. The fuel is wet.
 - D. The fuel is burning completely.
- 64. Carbon has the unique ability to form bonds with other atoms of carbon, giving rise to large molecules. This property is called
 - A. Isomerism
 - B. Allotropy
 - C. Catenation
 - D. Hydrogenation
- 65. Which of the following rule states that, Properties of elements are a periodic function of their atomic number.
 - A. Dobereiner's law of Triads
 - B. Newlands' Law of Octaves
 - C. Mendeleev's Period Law
 - D. Moseley's Modern Periodic Law
- 66. In modern periodic table, as we move from left to right the metallic property of the elements
 - A. Increases
 - B. Does not change
 - C. Decreases
 - D. First increases and then decreases

	Bladder
D.	Nephron
69. A Sma	ll space between the two neurons is
A.	Nerve cell
	Synapse
	Dendrite
D.	Axon
70. The pl	nenomenon of growth of shoot towards lightis
-	Hydrotropism
	Phototropism
C.	Chemotropism
D.	Phototropism
71. The Bl	ood pressure, salivation and vomiting are controlled by
	Cerebrum
B.	Medulla
C.	Cerebellum
D.	Pons
72. Transf	er of pollen grains from stigma to ovary is called:
A.	Pollination
B.	Ovulation
	Fertilization
D.	None of these
	a child will be determined by
	. X chromosome of father
	. X chromosome of fother
	. Y chromosome of father . Chromosomes of both father and mother
D	. Chromosomes of both father and mother
	abryo gets nutrition from the mother's blood with the help of a special tissue
called	
	Uterus
	Placenta
C.	Zygote Womb

67. The unit helps in clotting of blood

B. White blood cellsC. Red blood cells

68. The structure and functional unit of the excretory system

A. Platelets

D. Plasma

A. NeuronB. Ureter

- 75. An example for homologous organ is
 - A. Wing of bat and bird
 - B. Embryos of man and bird
 - C. Fossils of vertebrates and invertebrates
 - D. Forelimbs of man and bird
- 76. According to the evolutionary theory formation of a new species occurs generally due to
 - A. Sudden creation by nature.
 - B. Accumulation of variations over several generations
 - C. Clones formed during asexual reproduction
 - D. Movement of individuals from one habitat to another.
- 77. Which of the following characters can be acquired but not inherited?
 - A. Colour of skin
 - B. Size of body
 - C. Colour of eyes
 - D. Texture of hair
- 78. Which of the following radiations is responsible for the conversion of atmospheric oxygen to ozone?
 - A. Gamma radiations
 - B. Cosmic radiations
 - C. Infrared radiations
 - D. Ultraviolet radiations
- 79. The quality of environment can be improved by-
 - A. Deforestation
 - B. Overuse of natural environment
 - C. Erosion
 - D. Conservation
- 80. The scientific method to conserve soil and water is
 - A. Construction of dams
 - B. Watershed management
 - C. Rainwater harvesting
 - D. Afforestation

Modal Qp -01

SSLC SOCIAL SCIENCE

MULTIPLE CHOICE QUESTIONS FOR 2021 EXAM

1. The "Gate of Eu	ropean trade" was				
a) Italy	b) France	c) Consta	ntinople	d) Calid	cut
2. Through these them in India.	wars, the English h	ad made other E	uropeans cour	ntries not	to challenge
a) Carnatic wars war	b) Anglo Maratha	war c) Anglo	Mysore war	d) Plas	sey and Buxar
3. Who started the	e Civil Service Syste	em in India?			
a) Lord Dalhousie	b) Mackale	y c) Lord C	ornwallis	d) Lord	l Wellesley
4. Hyder Ali died ii	n this battle				
a) Battle of Porto	Nova b) Battle of	Plasseyc) Battle	of Maduraid) E	Battle of	Madrass
5. Where did Daya	ananda Saraswathi	started the Head	office of Arya	Samaja?)
a) Lahore	b) Kolkata	c) Mumbai	d) Madras		
6. The first war of	India's independer	nce held in the ye	ar		
a) 1858.	b) 1857.	c) 1899.	d) 17	757	
7. Lord Lytton Ver	nacular Press Act p	assed to			
a) Freedom of pre	SS	b) Spread awar	eness about Go	ovt polici	es
c) Curb independe	ence of Press	d) Publish any a	rticle		
8. Kheda and Char	mparan Satyagraha	started by			
a) Gandhiji	b) Jawahar	lal Nehruc) Radio	als d) Ex	ktremists	
9. Reorganization	of states Commissi	on president.			
a) Nanjundappa	b) H N Kunz	zru c)	K M Panikkar	d) Faza	al Ali
10. How many pri	ncely states were i	n India?			
a) 560	b) 561	c) 562	d) 56	53	
11. In India Muha	mmad Ali and Shau	ukat Ali started			
a) Chipko moveme day	ent b) Kheda Sa	atyagraha c)	(hilafat moven	nent	d) Direct action
12. Indian Nationa	al Congress founde	d by			
a) A. O. Hume	b) WC Ban	erjee c)	Lord Cornwallis	S (d) Lord Wellesley

13. Inaam Commis	sion introduced be	cause				
a) To give lands as	b) To increase taxation					
c) To cancel all hor	d) To take b	ack gifted la	ands			
14. The program ir women is.	mplemented by Go	vernment of	Karnataka f	or the d	evelopment of rural	
a) Lok Ayukta program	b) Stree Sha	kti	c) Sakshara	a Bharat	d) Family planning	
15. The article dea	ls with foreign poli	cy of India				
a) 52	b) 55	c) 51	d) 1	7		
16. Indo China war	held in the year					
a) 1962.	b) 1999.		c) 1963.	d) 196	55	
17. 1948 is an imp	ortant year in the h	istory of UN	O, because	on that	day.	
a) Disarmament w	as achieved	b) UNO was	established	k		
c) Human Rights v	vere declared	d) Discrimin	ation was e	nded		
18. UNO was estab	olished in the year					
a) Oct 24 1945	b) Sept 24 1	945	c) Oct 23 1	945	d) Oct 24 1946	
19. Article tells tha	at providing Social J	ustice People	e welfare is	the duty	of government	
a) 38.	b) 39 .		c) 40.		d) 42	
20. "Human societ	y is formed on natu	ıral inequalit	ies" It is me	ntioned	in the book	
a) Republic.	b) Politics	c) Gul	amagiri. d) Mooka	nayaka	
21 is a lar	rge, disorganized, ar	nd often violen	t crowd of p	eople.		
a) Reformationsb) Mob violence c) Movement. d) Mob						
22. Dowry deaths have been brought under the purview of.						
a) Indian Criminal Procedure code b) Indian legal Procedure code						
c) Indian regulation Procedure code d) Indian supervision Procedure code.						
23. The highest pe	ak in the world.					
a) Mount Godwin	Austin b) Mount Ev	erest	c) Annaimi	ıdi	d) Aravali hills	

24. India's climation	type						
a) Equatorial climateb) Temperate monsoonc) Tropical Monsoon d) Tropical climate							
25. It is formed from	om sediment deposited	d by rivers					
a) Alluvial soil	b) Black soil	c) Red soil	d) Mountain soil				
26. Rosewood and	l Mahogany trees foun	d here					
a) Desert forest	b) Evergreen fores	t c) Mountain forest	d) Deciduous forest				
27. The birth place	e of River Ganga.						
a) Gangotri.	b) Mount Kailash	c) Tibet.	d) Talakaveri				
28. Utilisation of la	and for different purpo	ose is called					
a) Agriculture	b) Land utilisation c)	Urbanisation d) Horticu	lture				
29. Prime minister	Gram Sadak Yojana is	implemented for this re	eason				
a) To convert Muc	I road into metal road	b) For Welfare					
c) For Urbanizatio	n d)	To provide Roads					
30. First cotton inc	dustry started in 1854	at					
a) Mumbai b) Ah	madabad c)	Kochi d) Varanasi					
31. Wind blows sp atmosphere	irally in words toward	s the centre of the low p	pressure it is associated with				
a) Cyclone	b) Tsunami	c) Flood. d) Land	d slides				
32. Mangrove fore impact of	ests and other deep ro	oted trees can be growr	n along the coast line to check				
a) Storms.	b) Monsoons	c) Cyclonic winds d) Currents				
33. It refers to the a) Flood	e inundation of land by b) River		d) Rainfall				
34. Southwest monsoon winds causes intensive coastal erosion along the of India							
a) East coast.	b) West coast	c) South coast d) No	orth West coast				
35. The total value	e of all goods and servi	ces produced in a count	ry during one year is called				
a) Per capita in	come b) National inco	me c) Development d) I	Economic development				
36. Panchayat Raj	36. Panchayat Raj came to existence in						
a) 1993	b) 1996	c) 1995.	d) 1990				

37. The account opened for a purpose to save for a future date.						
a) Saving Banl	k Account	b) Fixed deposit	Account			
c) Current Acc	count	d) Recurring Dep	osit Account			
38. Businessmen	and Traders usual	y open this accoun	t in Bank.			
a) Saving Banl	k Account	b) Current Bank	Account			
c) Recurring D	eposit Account	d) Fixed Do	eposit Account			
39. Fees or stam	p duty for the cons	sumer complaint.				
a) 10/- Rs	b) 100/- Rs	c) 1000/- Rs d) N	o Fee			
40. The other na	40. The other name of the Consumer is					
a) Provider	b) Producer c) S	upplier d) U	ser			