

K.S.R. TALENT TEST - 2016

for Class-10 Students of Govt. High SChools

Kanigiri Division Level Talent Test Sponsored by: Kunduru Ramana Reddy

Exam Date:21-02-2016 Venue : GOVT.HIGH SCHOOL (BOYS) , KANIGIRI , 523230

Max. Marks: 100

No. of Questions : 100

Time : 90 Min

Instructions to the Participants

- 1. This question paper contains 100 multiple choice questions. Each question has four choices.
- 2. Each question carries 1 Mark.
- 3. You were given a separate answer sheet for answering the questions
- 4. Answer sheet contains 100 serial numbers and a blank box is provided at each number.
- 5. Participant should select only one of the suitable answer from the four choices and write the choice symbol (A or B or C or D) in the answer paper , only in relevant blank boxes of corresponding serial numbers.
- 6. Answers must be written with blue or black ink ball point pen only.
- 7. Answers should not be rubbed / over write. If so they would treat as wrong answer.
- 8. Write Hall Ticket number only on the answer sheet. You must not write your name and other information.
- 9. Keep silence in the Examination hall.
- 10. Any decision in this regard is only by the committee.



	MATHEN	/AT	ICS	5. Find the mod	le of the follo	owing data
1.	P: All primes are	not c	odd	2, 2.2, 3, 2.3, 2, 3.2, 2, 3, 3	3.2, 2, 2.2, .1, 3.4	3, 3.2, 2.3,
C	Q. 2 is an even p	Jiiiie		A. 2	В.	2.3
د ۵	Pistrup Oist	ruo ar	hd	C. 3.2	D.	2.2
Λ.	Ω is not the correct	nt exn	lanation for P	6. Least Comm	on Multiple o	of the
В	. P is true . Q is t	rue ar	nd	numbers 12,	15 and 21 is	S
	Q is the correct ex	kplana	ation for P	A. 420	В.	180
С	. P is False,Q is	true	and	C. 210	D.	150
	Q is not the corre	ct exp	lanation for P	7. Find the valu	e of 'k' so th	at
D. P is False,Q is true and			$x^3 - 3x^2 + 4x$	±k is eva	ctly divisible	
	Q is the correct ex	kplana	ation for P	by $(x - 2)$		
2.	$2^{2 + \log_2 5} = ?$			A -4	В	4
А	5	В.	9	C. 2	D.	-2
С	. 20	D.	10	8 If Tan $\theta = 2$	Then find t	he value of
3. If	Sec θ + Tan θ =	= 4,tł	nen the value			
0	f Sec θ - Tan θ	= ?		$\sqrt{\frac{(1+\sin\theta)(1-s)}{(1+\cos\theta)(1-c)}}$	$\frac{(n \theta)}{(os \theta)}$	
A.	$\frac{1}{2}$	В.	2	A. 2	В.	$\frac{1}{2}$
С	. 0.5	D.	0.25	C. $\frac{1}{4}$	D.	4
4. If one grain of wheat be placed on the			9. The sum of fi	ve consecut	tive numbers	
fi	rst square of the	chess	board, two	is 125. Wha	t is the seco	ond number?
g	rains on the secor	nd sq	uare, four on	A. 31	В.	27
the third, eight on the fourth and so on. What is the sum of all grains to be			C. 24	D.	29	
			10. The sides of a triangle are 3cm,			
fi	filled in the chess board up to 64 th		4cm and 5cm	n. Find the a	rea of the	
S	quare.	_	- 63	triangle?		
A.	2° ⁺ -1	В.	200	A. 6 Sq. cm	В.	16 Sq. cm
С	. 2°°-1	D.	204	C. 12 Sq. cm	n D.	20 Sq. cm
				_		





OABC is a square. Find the length of AB diagonal? C. А 0 В **24.** $a x^3 + b x^2 + c x + d = 0$ is a polynomial with roots 1, 2 and 3. Then the values of a, b, c and d are A. 1, -6, 11, -7

25. Find the median for the following

Class Interval	Frequency
0 - 10	5
10 – 20	4
20 - 30	3
30 - 40	5

A. 18.75	В.	19.12
C. 17.98	D.	1901
26. If $\theta = 30^\circ$, then	Sin ² θ	+ $\cos^2 \theta = ?$
A. $\frac{\sqrt{3}}{4}$	В.	$\frac{1}{2}$
C. 1	D.	$\frac{3}{2}$

27. Radius of a circle	e is 5 o	cm. A tangent			
is drawn to the circle from a point 'P'					
which is at 13 cm o	distan	ce from its			
centre. Then the le	ngth	of the tangent			
is					
A. 14 cm	В.	13.5 cm			
C. 16 cm	D.	12 cm			
28. Set X is a sub se	t to S	et Y.			
Identify the relev	ant di	agram.			
A.	В.	$\bigcirc \bigcirc$			
c. ()	D.	$\bigcirc \bigcirc$			
29. Match the follow	ving:				
Group-A	- 0	Group-B			
1. Cone	a. S				
2. Cylinder	b. 1 3	π r ² h			
3. Sphere	C . π	r ² h			
4. Cube	d. π	r ³			
Correct answer:					
A. 1-b, 2-c, 3-d, 4-a					
B. 1 – a , 2 – b , 3 – c , 4 - d					
C. 1 – b , 2 – d , 3 – a , 4 - c					
D. 1-b, 2-a, 3	- c , 4	↓— d			
30. The sum of the tw	vo dig	jits in a			
number is 6. If the digits are inter					
changed, the difference between					
original number an	d res	sultant			
number is 36. Then find the sum of					
the two digits ?	-				
A. 15	B.	24			
(A)	ח	6			

PHYSICAL SCIENCES

- 31. Temperature of a substance 'X' is 45°C. Temperature of substance 'Y' is 45°C. Temperature of substance 'Z' is 60°C. Then which of the following statement is correct?
 - A. X, Y, Z are in thermal equilibrium
 - B. X and Y are in thermal equilibrium
 - C. Y and Z are in thermal equilibrium
 - D. Data is insufficient
- **32.** Can we collect the shadow of the flame of a burning candle on the wall ?
 - A. Yes, It is always possible
 - B. No, It is impossible
 - C. Some times it is possible
 - D. None of these

33.Conditions:

- (i) Light travels from Denser medium to Rarer medium
- (ii) Incident angle is greater than critical angle
- (iii) Angle of refraction is greater than 90°

Which of the above conditions should satisfy if there occurs Total internal Reflection?

- A. (i) and (ii) B. (ii) and (iii)
- C. (i), (ii) and (iii) D. (i) and (iii)



88. The focal length	of Plano-concavo		
lens having refractive index 'n' and			
radius of curvatu	re 'R' is		
A. f = R			
B. f = $\frac{R}{1-n}$			
C. f = $\frac{R}{n-1}$			
D. f = $\frac{1-n}{R}$			
39. Match the following:			
Group-A	Group-B		
1. Clouds	a. Condensation		
2. Rain	b. Evaporation		
3. Camphor	c. Freezing		
4. Ice	d. Sublimation		
Correct answer:			
A. 1-b, 2-c, 3	– d , 4 - a		
B. 1 – a , 2 – b , 3 – c , 4 - d			
C. 1 – b , 2 – a , 3 – d , 4 - c			
D. 1-b, 2-a, 3	- c , 4 − d		
IO. An ice cube is p	laced in a cup of		
water. Even a sing	gle drop of water is		
added to it, the wa	ater will over flow. If		
the ice cube was r	melted in that		

situation, then

- A. Water over flows from the cup
- B. Water does not over flow from cup
- C. We can not say
- D. None of these



49. Formula of Sodium ethoxide	54. Raddish shows vegetative		
A. CH₃COONa	propagation through		
B. C₂H₅ONa	A. Stem		
C. C ₂ H ₅ COONa	B. Leaves		
D. HCOONa	C. Root		
50. This is not the true statement	D. None of these		
A. Carbon dioxide helps to stop fire	55. Kolleru lake is located in between		
B. Caesium is a metal	Districts.		
C. Hydrogen is used as fuel	A. West Godavari & VisakhaPatnam		
D. Oxygen burns	B. SPSR Nellore and Ananthapuram		
BIOLOGICAL SCIENCES	C. Krishna and West Godavari		
51 This is not related to AIDS	D. Prakasam and SPSR Nellore		
	56. TMC means		
A. December First	A. Trillion Million Cubic feet		
B. Red Ribbon	B. Trillion Million Cubic meter		
C. Both A and B	C. Thousand Million Cubic feet		
	D. Thousand Million Cubic meter		
52. Dental formula	57. BM Birla Science centre is located		
A. $\frac{2}{2}$, $\frac{1}{1}$, $\frac{2}{2}$, $\frac{3}{3}$	in		
B. $\frac{2}{2}, \frac{2}{2}, \frac{1}{4}, \frac{3}{4}$	A. Tirupathi		
$C = \frac{2}{3} = \frac{3}{1} = \frac{3}{3}$	B. Vijayawada		
C. $\frac{1}{2}, \frac{1}{3}, \frac{1}{1}, \frac{1}{3}$	C. Hyderabad		
D. $\frac{3}{3}$, $\frac{1}{1}$, $\frac{2}{2}$, $\frac{3}{3}$	D. Nellore		
53. The symptoms of a person with	58. The harmone related to these		
deficiency of Vitamin - K	alands shown in the figure		
A. Night blindness	A. Testosteron		
B. Diarrhoea	B. Thyroxin		
C. Loss of memory	C. Adrenalin		
D. Blood Clotting takes more time	D. paratharmone		





- A. Azadirachta Indica
- B. Papaver Somniferum
- C. Cinchona afficinalis
- D. Datura Stramonium
- 69. Excretory system in Arthropoda

Organisms

- A. Flame cells
- B. Kidneys
- C. Malphighian tubes
- D. None of the above
- 70. Identify Gregor mendel







SOCIAL STUDIES

71. This is not the Metropolitan City

Α.	Kolkatha	В.	Hyderabad
C.	Chennai	D.	Ahmedaad

72. Match the following

Group-A	Group-B
1. Stalin	a. USSR
2. Hitler	b. Germany
Correct answer:	

A. 1-b, 2-a	В.	1 – a , 2 – b
C. 1 – a , 2 – a	D.	1 – b , 2 – b

- **73.** The longest canal in India is located in the region of
 - A. Thar Desert
 - B. Gondwana Land
 - C. Indo Gangetic plain
 - D. Deccan Plateau

74. The first largest peninsular river is

- A. Godavari B. Kaveri
- C. Mahanadi D. Krishna
- **75.** Chipko movement related to
 - A. Arvind Kejriwal
 - B. Anna Hazare
 - C. Medha Patkar
 - D. Sundarlal Bahuguna

76. IBRD

- A. Indian Bank for Regional Development
- B. International Bank for Reconstruction and Development
- C. International Bank for Reconstruction of Drought areas
- D. Indian Bank for Rural Development
- 77. Which is correct ?
 - (BMI = Body Mass Index)
 - A. $\frac{\text{Height in metres}}{\text{Weight in Kgs}^2}$
 - $\mathsf{B.} \; \frac{Weight \; in \; Kgs^2}{Height \; in \; metres}$
 - C. $\frac{Weight in Kgs}{Height in metres^2}$
 - D. $\frac{Weight in Kgs}{Height in metres^3}$





D. Australia

95. Let the book be kept.	
The above sentence is in	
A. Active voice	
B. Passive voice	
C. either Active voice or	
Passive voice	
D. None of the above	
96. A person who brings out new books	
is called	
A. Preacher	
B. Author	
C. Book seller	
D. Publisher	
97. Which is correct?	
A. Sravani is going to school every	
day with her friend Rajani.	
B. Vikram going to school every day	
with his friend Yaswanth.	
C. Vamsi Madhav goes to school	
every day with his friend Abdul	
Kalam.	
D. Sheela go to school every day with	
her friend Keerthana.	
98. Tamanna is a beautiful lady. Ram	
Charan stared at her	
A. Beautiness	
B. Beauty	
C. Beautify	
D. Beautiful	
	11

(99-100) Read the following

passage.

Chandra sekhara Venkata Raman was born on 7th November 1888. He was died on 21st November 1970. He was the first Indian scientist and also Asian scientist who awarded with Nobel prize. He got Nobel prize in physics in **1930** for the discovery of Raman effect. He was honoured with Bharatha Ratna in 1954.

Now answer the following.

- 99. C.V.Raman discovered
 - A. Bharatha Ratna
 - B. Raman effect
 - C. Nobel prize
 - D. Physics
- 100. C.V.Raman was born on
 - A. 28th February
 - B. 7th November
 - C. 21st November
 - D. 21st February



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