Vidyarthi Vigyan Manthan (VVM) – 2016

Prathama Junior Group (Class VI, VII & VIII)

Model Question Paper

(for practice purposes only)

Total number of questions: 100

Max Marks: 100

General Instructions:

- \Rightarrow All questions are compulsory.
- \Rightarrow Use of calculator is not permitted.
- \Rightarrow There is no negative marking for any wrong answer.
- \Rightarrow You shall not go the questions page until asked to do so.
- \Rightarrow For any doubt, consult only the invigilators.
- \Rightarrow Mark answers on OMR sheet provided separately.
- \Rightarrow Follow the instructions provided on OMR sheet.
- \Rightarrow Hand over question paper and the OMR sheet to the invigilators before leaving the hall.
- \Rightarrow You shall not be allowed to leave the hall unless and until so announced by the invigilator.
- \Rightarrow Subject wise proportion may vary.

Fill all the details before opening the Question Paper Booklet (IN BLOCK LETTERS)

Name of Student] Roll No.
Exam Centre Code	OMR Sheet Code
Signature of student	

	(a) A periodic motion(b) A linear motion	(c) An oscillatory motion(d) A non-accelerated motion
02.	A switch is used in an electrical circuit to	
	(a) Make and break the circuit(b) Control the current in the circuit	(c) Cool down the circuit(d) To heat the circuit
03.	We can see our image on a polished glossy surfa	ce because of
	(a) Refraction of light(b) Reflection of light	(c) Absorption of light(d) Radiation of light
04.	Time period of a simple pendulum is 1.5 secon oscillations?	d. How much time will it take to complete 9
	(a) 12 second(b) 9 second	 (c) 13.5 second (d) 1.5 second
05.	A car travels for 15 minutes with speed of 40 k Total distance travelled by the car is	mph and then for 10 minutes with 60 kmph.
	(a) 20 km(b) 100 km	 (c) 25 km (d) 15 km
06.	An Image that can be observed on a screen is	
	(a) Virtual image(b) Bright image	(c) Dark image(d) Real image
07.	A cell converts	
	(a) Electrical energy to chemical energy(b) Chemical energy to electrical energy	(c) Magnetic energy to electrical energy(d) Electrical energy to mechanical energy
08.	To an astronaut, the outer space appears	
	(a) Dark blue(b) White	(c) Black(d) Dark red
09.	It is difficult to walk on ice because	
	(a) Friction is high.(b) Friction is low.	(c) Pressure is high.(d) Pressure is low.
10.	Sound of which of the following frequencies is in	naudible to human?
	(a) 30 Hz(b) 1500 Hz	(c) 15000 Hz(d) 30000 Hz
11.	Acid rain is caused by	
	(a) Oxygen(b) sulphur dioxide	(c) phosphorus pentaoxide(d) silicon di oxide

01. Circular motion is

12.	The density of water is maximum at	
	(a) 0°C (b) 2 ⁰ C	(c) 4°C (d) 1°C
13.	Which of the following is an alloy?	
	(a) silver(b) gold	(c) steel(d) iron
14.	A saturated solution can become unsaturated by	
	(a) Cooling(b) Heating	(c) Adding more solute(d) Cannot be made unsaturated
15.	5. Aquatic animals like fish excrete their wastes in gaseous form as	
	(a) Oxygen(b) Hydrogen	(c) Ammonia(d) Nitrogen
16.	Which of the following is an acid-base indicator?	
	(a) Vinegar(b) Lime water	(c) Turmeric(d) Baking soda
17. Bacteria in your mouth produce acids, so you should use toothpaste that is		ld use toothpaste that is
	(a) Acidic(b) saline	(c) Basic(d) Neutral
18.	Potable water is the water which is	
	(a) Obtained from a river.(b) Obtained from a lake.	(c) Safe and fit for drinking.(d) used only for washing clothes
19.	Tetraethyl lead is used as	
	(a) pain killer(b) fire extinguisher	(c) mosquito repellent(d) petrol additive
20.	The absorption of ink by a tissue paper involves	
	(a) viscosity(b) capillary action	(c) diffusion(d) osmosis
21.	A vendor bought toffee at 6 for a rupee. How m profit?	nany for a rupee must he sell to gain 20%
	(a) 3	(c) 5
	(b) 4	(d) 6
22.	Two numbers are in the ratio 15:11 & their HCF is	13. Find the numbers.
	(a) 194,140	(c) 195,143
	(1-) 100 144	(1) 102 142

(b) 190,144 (d) 192,142

23.	Abscissa of a point is positive in	
	(a) I quadrant only(b) I and III quadrant	(c) I and IV quadrant(d) In all quadrants
24.	At what rate percent per annum will the simple	interest on a sum of money be $\frac{2}{5}$ th of the
	amount in 10 years?	5
	(a) 1%(b) 2%	 (c) 3% (d) 4%
25.	. Perpendicular sides of a right angled triangle are 12 and 16 cm. What is the area of a semicircle drawn with the hypotenuse as the diameter?	
	(a) 314(b) 154	(c) 616(d) 100
26.	26. 800 m long train running with speed 75 kmph crosses a tunnel in 1 min. What is the length of the tunnel?	
	(a) 260 m(b) 450 m	(c) 480 m (d) 500 m
27.	The least number of complete years in which a Interest, will be more than double is	sum of money put out at 20% compound
	(a) 3 (b) 4	(c) 5 (d) 6
28.	. Sum of second even, fourth odd and first perfect square after 100 is	
	(a) 300(b) 332	(c) 336 (d) 338
29.	Average of prime numbers between 100 and 120 is	·
	(a) 111(b) 109	(c) 108.6(d) 106.6
30.	There are 50 balls in a container. Their average weight is 2 N. If the weight of the container be included, the average increases by 0.05 N. So the weight of the container is	
	(a) 2.2 N (b) 2.3 N	(c) 3 N (d) 4.55 N
31.	was one of India's major export indubanned it.	ustries till British dismantled and formally
	(a) Textiles(b) Spices	(c) Shipbuilding(d) Ayurveda

32. Which of the following is NOT an important objective of India's nuclear energy programme? (a) Power Generation (c) Medicine (b) Agriculture (d) Nuclear Missile 33. India's first satellite built by ISRO in 1975 was _____ (c) INSAT (a) Aryabhatta (b) Intelsat (d) Edusat 34. India is the only third world country to develop its own ______ satellite. (a) Weather monitoring (c) Communication (b) Remote sensing (d) Spying 35. In last 10 years, which industry in India has grown at an average annual rate of 30%? (c) I T (a) Automobile (b) e-Commerce (d) Jewellery 36. Dakshin Gangotri is in _____ (a) Antarctica (c) Uttarakhand (b) Himalayas (d) Indian Ocean 37. This Indian origin scientist proved in 1897 the long suspected link between mosquitoes and malaria. (a) J C Bose (c) Alphonse Laveran (b) Varahmihir (d) Ronald Ross 38. Indian scientist to receive the Nobel Prize for study of "Scattering Effect of Sunlight" was (a) S. Chandrasekhar (c) Har Govind Khurana (b) M S Swaminathan (d) C V Raman 39. Dr. Har Govind Khurana was awarded Nobel Prize for (a) Studying Scattering Effect of Light (c) Study of Stellar Evolution (b) Interpretation of Genetic Code (d) Physics Cracking the complex functions and structures of Ribosome fetched an Indian scientist a 40. Nobel Prize. Who was he? (a) C V Raman (c) A P J Abdul Kalam (b) S Chandrasekhar (d) Venkataraman Ramakrishan 41. Name the Indian regarded as the Father of Surgery. (a) Charak (c) Dhanwantari (b) Sushrut (d) Bhaskara-II

42.	Which ancient Indian scholar calculated most accurately, i.e. with a difference of only 3.5 minutes, the time required for the Earth to orbit the Sun?	
	(a) Brahmagupta(b) Bhaskaracharya	(c) Aryabhatta(d) Kalidasa
43.	Famous scientists, Satyendra Nath Bose and Megh	anad Saha were students of this scientist.
	(a) J C Bose(b) P C Ray	(c) Birbal Sahni(d) P C Mahalanobis
44.	Which of these scientists was the first to prove that even plants have feelings?	
	(a) Birbal Sahni(b) Har Govind Khurana	(c) P C Mahalanobis(d) J C Bose
45.	In 1892, who founded Bengal Chemicals a pharmaceutical company?	nd Pharmaceutical Works, India's first
	(a) J C Bose(b) P C Ray	(c) Satyendra N Bose(d) Meghnad Saha
46.	For his studies on the technique of casting coins in ancient India, the Numismatic Society of India awarded the Nelson Wright Medal to which of these scientists?	
	(a) Meghnad Saha(b) Birbal Sahni	(c) Homi Bhabha(d) Anil Kakodkar
47.	He was an Indian born Nobel Prize winner who did pioneering work on proteins and nucleic acids. His father was a 'Patwari', an agriculture taxation clerk in British India. Name him.	
	(a) Anil Kakodkar(b) Vijay Bhatkar	(c) Har Govind Khurana(d) P C Ray
48.	Which of the following scientists is credited to have founded the prestigious Institute of Nuclear Physics in 1950?	
	(a) Meghnad Saha(b) Satyendra N Bose	(c) Homi Bhabha(d) P C Ray
49.	came into news in connection with the discovery of what is popularly called the 'God Particle'.	
	(a) A P J Abdul Kalam(b) Satyendra N Bose	(c) Homi Bhabha(d) Anil Kakodkar
50.	Dr. Salim Ali, the 'Birdman of India' was a/an	
	(a) Ornithologist(b) Palaeontologist	(c) Archaeologist(d) Entomologist

51. Who invented the technique for test tube fertilisation of an angiosperm?		on of an angiosperm?
	(a) Dr Salim Ali(b) Panchanan Maheshwari	(c) B P Pal(d) Vijay Bhatkar
52. Who founded the Indian Society of Genetics and Plant I		lant Breeding?
	(a) Panchanan Maheshwari(b) Salim Ali	(c) B P Pal(d) Homi Bhabha
53. Who of the following is known as the main architect of Ind		ct of Indian Atomic Energy Programme?
	(a) Vikram Sarabhai(b) J C Bose	(c) Homi J Bhabha(d) B P Pal
54.	54. Who of these is fondly remembered as the Father of Indian Space Programme?	
	(a) Homi J Bhabha(b) Vikram Sarabhai	(c) Varghese Kurien(d) A P J Abdul Kalam
55. India's first rocket launching station was set up at		
	(a) Balasore(b) Sri Harikota	(c) Trivandrum(d) Thumba
56. Varghese Kurien, fondly remembered as 'The Milkman of India', was a		xman of India', was a
	(a) Mechanical Engineer(b) Zoologist	(c) an instrumentation Engineer(d) Biologist
57.	57. Who engineered the 'White Revolution of India'?	
	(a) M S Swaminathan(b) Vikram Sarabhai	(c) Varghese Kurien(d) Vainu Bappu
58.	This famous geneticist is known as the man behind	India's 'Green Revolution'.
	(a) M S Swaminathan(b) A P J Abdul Kalam	(c) Vainu Bappu(d) V Kurien
59.	The 'Missile Man of India', Dr A P J Abdul Kalam	n, specialized in
	(a) Aerospace Engineering(b) Aeronautical Engineering	(c) Astrophysics(d) Nuclear Science
60.	The famous Iron Pillar in Delhi has withstood corro	osion for the last years.
	(a) 1500(b) 1600	(c) 1650(d) 1800

61.	. How many elder sister/s APJ Abdul Kalam had?	
	(a) 1 (b) 2	(c) 3
	(b) 2	(d) 4
62.	At Pamban Island Dr Kalam's ancestral house was i	in the vicinity of which temple?
	(a) Ramanathaswamy	(c) Badrinath
	(b) Venkaseshwar	(d) Rameshwar
63. What relation Marakyar had with Dr Kalam?		
	(a) Brother	(c) Friend
	(b) Uncle	(d) Brother in law
64.	4. Dr Kalam visited whose house on 28 May 2005 during his visit to Switzerland.	
	(a) Newton	(c) John Canady
	(b) Einstein	(d) Geroge Bush
65.	65. What was the name of Kalam's the great grand father	
	(a) Avul	(c) Pakir
	(b) Jainulabdeen	(d) Abdul
66.	66. Name publisher of the book "Wings of Fire" of APJ Abdul Kalam with Arun Tiwari	
	(a) University Press	(c) Oriental
	(b) Tata McGraw Hill	(d) Pearson
67.	In 1961 Dr Kalam saw a film The Absent-Minded P	Professor. Who was the actor of this film?
	(a) Wd Eynn	(c) Mark Spenser
	(b) Ed Wynn	(d) Einstien
68.	Who told to Dr Kalam that thrift and self-control are	e sought because they create character?
	(a) His father	(c) His Teacher
	(b) His mother	(d) His friend
69.	The date of birth of Dr Kalam is 15 th day of October	r 1931. What was the day on this date?
	(a) Monday	(c) Thursday
	(b) Tuesday	(d) Sunday
70.	The southernmost tip of the Pamban Island is	
	(a) Dhanushkodi	(c) Puducherry
	(b) Perumdur	(d) Sriharikota

71.	"You can't cross the sea merely by standing and staring at the water", who said this	
	(a) Kalam(b) Tagore	(c) Gandhi(d) Nehru
72.	To whom Dr Kalam gives credit for developing a	fascination in him for the flying.
	(a) Siva Subramania Iyer(b) Father	(c) Mother(d) Brother
73.	How much APJ could earn by selling tamarind seeds during crisis days	
	(a) One anna(b) One Rupee	(c) Ten Rupees(d) Fifty Paise
74.	74. Who is the author of Dr Kalam's favourite poem "Where the Mind is without fear and head held high"	
	(a) Dinkar	(c) Bachchan
	(b) Tagore	(d) Mahadevi Verma
75.	Which year Dr Kalam's book "you are born to blo	ssom" was published.
	(a) 2008(b) 2006	(c) 2010(d) 2007
76.	STR Manickam, a revolutionary nationalist was popular because of his owning a	
	(a) Huge library(b) Swimming pool	(c) Dairy farm(d) House
77.	Who is well known for policy of 'iron fist in a vel	vet glove'
	(a) Tagore	(c) Sardar Patel
	(b) Dr Kalam	(d) Bhagwan Budha
78.	Where is Sethupaty Raja Palace situated?	
	(a) Ramnad town	(c) Rameswaram
	(b) Chennai	(d) Dhankavadi
79.	Iyadurai Solomon was Dr Kalam's teacher at	
	(a) Shwartz	(c) Dhankavadi
	(b) Rameswaram	(d) Chennai
80.	Who advised Dr Kalam that, "Keep reading books	, but you should learn to think for yourself."
	(a) Tagore	(c) STR Manickam
	(b) S Srinivasan	(d) Sarabhai

81.	Which of the following are the factors of $(49p^2+154p+121)$?	
	 (a) (p-1)(49p+121) (b) (7p+11)(7p+11) 	(c) (7p+11)(7p-11) (d) (p+1)(49p+121)
82. Rohit ran 20% faster than Sunil. If Rohit's speed was 30 km/hr, what was Sunil's spee		vas 30 km/hr, what was Sunil's speed?
	(a) 24 km/hr(b) 25 km/hr	(c) 36 km/hr(d) 20 km/hr
83.	A shopkeeper sells chocolates for Rs.6.50 and a toffee for Rs.2.00 each. If he earned total Rs.836.50 by selling 209 chocolates and toffees, how many chocolates did he sell?	
	(a) 87(b) 116	(c) 96(d) 93
84.	4. If a clock strikes 12 in 22 seconds, in how many seconds will it strike 6?	
	(a) 12(b) 11	(c) 14(d) 10
85.	5. Two numbers are in ratio 2:7. If their LCM is 224, find the greater number.	
	(a) 32(b) 56	(c) 112(d) 224
86.	6. A girl is now 'x' years old and her father is '5x' years old. How old will the father be when the girl will be '3x' years old?	
	(a) 15x years(b) 7x years	 (c) 45 years (d) 5x² years
87.	Find two positive numbers whose sum is 190 and the sum of their cubes is the least.	
	(a) (100, 90)(b) (95, 95)	(c) (155, 35) (d) (60,130)
88.	Choose the simple form of	
	$\sqrt{2}\sqrt[4]{4}\sqrt[4]{4}$	
	(a) $2^{5/4}$ (b) $2^{5/6}$	(c) $2^{3/8}$ (d) $2^{5/8}$

89. Out of 200 bags of apples, a wholesaler sells first 150 bags at a rate of Rs *P* per bag. For remaining bags he offers a discount of 20% per bag. The total amount collected from this sale is....

(a) Rs.190	(c) Rs.150 P +40
(b) Rs.150 <i>P</i>	(d) Rs.190 P

90. A 30 litre mixture of milk and water has milk and water in ratio of 7:3. How much water should be added to the mixture to make the ratio 3:7?

- (a) 10 litre (c) 30 litre (b) 20 litre (d) 40 litre
- 91. Which one out of following contains starch?
 - (a) meat
 - (b) egg
- 92. What is jute?
 - (a) a kind of fibre from plant
 - (b) a name used for art of making cloth
- 93. Which of the following statements is correct?
 - (a) herbs are shorter than trees but taller than shrubs
 - (b) trees are shortest and shrubs the tallest
- 94. Which of the following statements is correct?
 - (a) the hip joint is immovable but upper jaw is freely movable
 - (b) the hip joint is ball and socket but upper jaw is attached to skull by hinge joint
- 95. Lichen is association between ____ and _____.
 - (a) fungi and protozoan
 - (b) algae and plants
- 96. Bile juice is stored in ____.
 - (a) liver
 - (b) pancreas
- 97. Silk is obtained from ___.
 - (a) silk worm's body
 - (b) silkworm cocoons

(c) animal skin(d) a nutritious meal

(c) sugar(d) rice

- (c) shrubs are taller than the herbs but shorter than the trees
- (d) there is no difference in the height of plants
- (c) hip joint is movable but not the upper jaw
- (d) hip is hinge joint but upper jaw forms ball and socket joint
 - (c) fungi and algae
 - (d) algae and mushrooms
 - (c) gall bladder
 - (d) stomach
 - (c) shells of oysters
- (d) eggs of silk moth
- 98. The blood loss can be stopped by the formation of clot. This is largely due to an enzyme released by ______
 - (a) platelets
 - (b) red blood cells

- (c) white blood cells
- (d) plasma

- 99. A vision defect called farsightedness is _____.
 - (a) myopia

(c) cataract

(b) hyperopia

- (d) arthritis
- 100. Which of the following events are due to adrenalin?
 - (a) faster breathing; more blood to digestive system
 - (b) slower heart beats; more blood to skeletal muscles
- (c) quicker heart beats; more blood to skeletal muscles
- (d) more blood to skeletal muscles and digestive system