VTS EXAMINATION 2016-17 (FINAL) OUESTION PAPER

Class: IX QUESTIC

9

	Score : 400
Register No:	Time: 2 hrs

General Instructions

- 1. Candidates are supplied with an OMR Answer Sheet.
- 2. Answer the questions in the OMR Sheet by shading the appropriate bubble.
- 3. Shade the bubbles with black ball point pen.
- 4. Each question carries four marks. One mark will be deducted for each wrong answer.
- 5. Use the space provided in the last page for rough work.

I. Read the following passage and answer the question

A glass bottle that is sent to a land fill can take up to a million years to break down .By contrast, it takes as little as 30 days for a recycled glass bottle to leave your kitchen recycling bin and appear on the store shelf as a new glass container. Glass containers are 100 percent recyclable, which means that they can be recycled repeatedly again and again, with no loss of purity or quality in the glass. Recovered glass from glass recycling is the primary ingredient in all new glass containers. A typical glass container is made of as much as 70 percent recycled glass. According to industry estimates, 80 percent of all recycled glass eventually ends up as new glass containers. Every ton of glass that is recycled saves more than a ton of the raw materials needed to create new glass, including:1300 pounds of sand, 410 pounds of soda ash, and 380 pounds of lime stone. Glass containers have low rate of chemical interaction with their contents

- 1. It is important to send used glass bottles to a recycle plant because....
 - A. They are not biodegradable
- B. They can be reused

C. They can be sold

- D. They can be used for decoration
- 2. Glass is safe to use as it......
 - A. Looks very clean

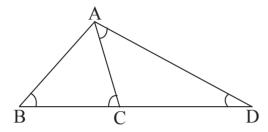
- B. Has high resistance
- C. Has low chemical content
- D. Is rated as good
- 3. The materials used for making glass is
 - A. Soda ash, sand and lime stone
- B. Sand and lime stone

C. Soda and lime

D. None of these

4.	Another word which means the same as 'component'is				
	A. Quality		B. Estimates		
	C. Landfill		D. Ingredient		
5.	She said, I "saw him	n". Turn to indirect sp	peech		
	A. She said he saw l	ner	B. She said he had seen her		
	C. She said that she	had seen him	D. She asked if she saw him		
6.	Which among the fo	ollowing is in passive	voice?		
	A. Ali's helping her	•	B. Tara's helping her		
	C. Tara's being help	ed by Ali	D. Tara helped Ali		
7.	(yo	(you/see) the news ? You won't believe your eyes.			
	A. Have you saw		B. You see		
	C. Had you seen		D. Have you seen		
8.	It's warm inside your coat				
	A. Take off		B. Take out		
	C. Put off		D. Put on		
9.	Which of the following is correctly spelt?				
	A. Hand kerchief		B. Hanker chief		
	C. Hancerchief		D. Hand kercheif		
10.	Which of the following is the synonym of 'avow'				
	A. Suppress		B. Deny		
	C. Confess		D. Disavow		
11.	Inside a triangular garden there is a flower bed in the form of a similar triangle. Around the				
	flower bed runs a ur	niform path of such a	width that the sides of the garden are double of the		
	corresponding sides	of the flower bed. The	e areas of the path and the flower bed are in the ratio		
	A. 1:1	B. 1:2			
	C. 1:3	D. 3:1			

- 12. The measure of an angle which is 4 times its supplement is
 - A. 36°
- B. 144°
- C. 180°
- D. 150°
- 13. In the figure $\angle B = \angle C = 65^{\circ}$ and $\angle D = 30^{\circ}$, then



- A. BC < CA < CD
- B. BC > CA > CD
- C. BC < CA, CA > CD
- D. BC > CA, CA < CD
- 14. If $\sqrt{1 + \frac{25}{144}} = 1 + \frac{x}{12}$, then x is
 - A. 11

B. 2

C. $\frac{1}{2}$

- D. 1
- 15. If p + q = 7 and $\sqrt{q^2 9} = 4$, find p.
 - A. 1

B. 2

C. 3

- D. 4
- 16. 15 years hence a man will be just 4 times as old as he was 15 years ago. His present age is
 - A. 10 years

B. 15 years

C. 20 years

- D. 25 years
- 17. If p persons working p hours a day for each of p days produced p units of work, then the units of work produced by q persons working q hours a day for each of q days is
 - A. $\frac{q^3}{p^2}$

B. $\frac{q^2}{p^3}$

C. $\frac{p^2}{a^3}$

- D. $\frac{p^3}{a^2}$
- 18. The value of $\sqrt{1.96 + \sqrt{23.04}}$ is
 - A. 2.6

B. 3.6

C. 4.9

D. 6.4

19.	If $\sqrt{5} = 2.2361$ and $\sqrt{3} = 1.7321$, then $\frac{1}{\sqrt{5} - \sqrt{3}}$ is equal to		
	A. 1.98	B. 1.984	
	C. 1.9841	D. 2	
20.	If n is a whole numb	er greater than 1, then n ² (n ²	² –1) is always divisible by
	A. 12	B. 12 and 24	
	C. 24	D. 36	
21.	The equation corresp	oonding to Universal Law o	f Gravitation
	A. $F = g \frac{Mm}{d^2}$	B. $F = G \frac{M m}{d^2}$	
	C. G = F $\frac{Mm}{d^2}$	D. $g = \frac{FMm}{d^2}$	
22.	The weight of object	is	at poles comparing with that of equator.
	A. Less	B. Same	
	C. More	D. Zero	
23.	$m_1 = 60 \text{ kg}, u_1 = +5 \text{ r}$	m/s and $m_2 = 55 \text{ kg}; u_2 = -6$	m/s. Find the total momentum of the system.
	A30 kg m/s	B. - 40 Km m/s	
	C. 0.3 Kg m/s	D. 0.4 Kg ms	
24.	An object moves thr	ough a circular path and co	mes back to the starting point. Which of the
	following statement	is true ?	
	A. Distance travelled	d by the object is zero	B. Displacement of the object is zero
	C. Distance = displa	cement	D. Displacement = $2\pi \frac{r}{t}$
25.	Which of the follows	ing is not an element?	
	A. Graphite	B. Germanium	
	C. Silica	D. Silicon	
26.	Which of the follows	ing method is used in diagno	ostic labs for blood and urine test?
	A. Filtration	B. Centrifugation	
	C. Sublimation	D. Distillation	

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27.	In which of the following conditions, the distance between the molecules of hydrogen gas			
	would increase?			
	i) Increasing pressure on hydrogen contained in a closed container			
	ii) Some hydrogen gas leaking out of the container			
	iii) Increasing the volume of the container of hydrogen gas			
	iv) Adding more hydrogen gas to the container without increasing the volume of the container			
	A. (i) and (iii)	B. (i) and (iv)		
	C. (ii) and (iii)	D. (ii) and (iv)		
28.	A person met with a	n accident in which two long bones of hands were dislocated. Which		
	among the following may be the possible reason?			
	A. Tendon break	B. Break of skeletal muscle		
	C. Ligament break	D. None		
29.	The living componen	at of xylem is		
	A. Tracheids	B. Vessels		
	C. Xylem fibres	D. Xylem parenchyma		
30.	White blood cell help	os in		
	A. Clotting of blood	B. Transport of oxygen		
	C. Killing harmful ge	erms D. All of these		
31.	From Which languag	te the word 'Feudalism' derived ?		
	A. Spanish	B. Latin		
	C. Arabic	D. French		

Two statements are given below. One labelled as Assertion (A) and the other labelled as Rea-32. son (R) Assertion (A): To regulate the daily affairs of the market an official called 'Shahna' was appointed during the period of Delhi Sultanate. Reason (R): Severe punishment was imposed, if excess prices were charged or if cheating in weights and measures was done. In the above two statements, which one of the following is correct? A. Both 'A' and 'R' are correct and 'R' is the explanation of 'A' B. Both 'A' and 'R. are not correct C. 'A. is true and 'R' is false D. 'R' is true and 'A' is false Which of the following was not associated with the Five Year Plan introduced by Russia? A. Industrial production increased B. Centralised planning led to economic growth C. Industrial products were distributed among the factory workers in lieu of wages. D. Enterprises under private ownership were taken over by the state. 34. Consider the following statements: i. The cost of construction and maintenance of water transport route is less. ii. Air pollution and Noise pollution are less in water transport. Which of the above statements are correct? A. i only B. ii only D. Neither i or ii C. Both i and ii 35. Which of the following trees are found in Tropical rain forests? A. Mahagony B. Teak C. Sal D. Peepal IX 6 / 16

36. Which one of the following National Parks is located in Uttarakhand?		cs is located in Uttarakhand?		
	A. Silent valley National Park	B. Jir	n Corbett National Park	
	C. Sunderban National Park	D. Ka	aziranga National Park	
37.	What is the purpose of the Swa	arnajayanti	Rozgar-Yojana passed by the central government?	
	A. To guarantee 100 days of en	mployment		
	B. To encourage self employment			
	C. To ensure nutritious food th	rough Scho	pols	
	D. To implement Programmes	through A	nganawadies	
38.	Which of the following belong	ged to the to	ertiary sector ?	
	A. Health care B	8. Forestry		
	C. Car manufacturing). Fishing		
39.	Which of the following is incorrect with regard to the Indian constitution?			
	A. The Constituent Assembly approved the Indian Constitution on 26 th November, 1949.			
	B. 292 Articles and 6 Schedule	es have incl	luded in Indian Constitution.	
	C. Dr. Rajendra Prasad was the	e chairman	of the Constituent Assembly	
	D. The preamble retlects the ba	asic ideas a	and values of our constitution.	
40.	What is known as the "Counc	il of States	"?	
	A. Lok Sabha		B. Rajya Sabha	
	C. State Legislative Assembly		D. State Legislative Council	
41.	The project started by central §	governmen	t to get bank account for everybody	
	A. Sampoorna Grameen Rozga	ar Yojana	B. Swach Bharath	
	C. Jan-Dhan Yojana		D. None	
42.	The first aircraft which flew w	ith solar en	ergy in March 2015	
	A. Solar Impulse 2		B. Solar Impulse 5	
	C. Solar Impulse – 9	D. So	palr Impulse – 10	

43.	Name the Malayalee Anglo Indian representative nominated to 16 th Lok Sabha		
	A. Ludi Louis	B. Manohar Parrikar	
	C. Prof. Richard Hay	D. None of these	
44.	Name the Chief Minister of Odisha?		
	A. Naveen Patnaik	B. Nitish Kumar	
	C. Akhilesh Yadav	D. K. Siddaramaiah	
45.	Who administers the oath of the 'Governo	or of a state'?	
	A. President	B. Prime Minister	
	C. Chief Justice of Supreme Court	D. Chief justice of High court	
46.	Give the expansion of UNIFEM?		
	A. United Nations Development Federation	on for Women	
	B. United Nations Development Fund for	Women	
	C. United Nations Development Fund for	Workers	
	D. United Nations Department Fund for V	Vomen	
47.	What does 'NITI' Ayog stand for ?		
	A. Navi Information Technology of India		
	B. National Industrial Technology in India	a a	
	C. National Institution for Technology in	Idia	
	D. National Institution for Transforming I	ndia	
48.	Photo copying machine was invented by		
	A. Gutenberg	B. Chester F Carlson	
	C. Symur Cray	D. None of these	
49.	The principal author of the 'Declaration o	f Independence' and the third president of America	
	A. George Washington	B. Thomas Jefferson	
	C. Adams John	D. James Madison	

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50. Who gave the revolutionary message $-$ "No Caste, No religion, No God for Man"?		ge – "No Caste, No religion, No God for Man"?		
	A. Dr. Palpu	B. Kumaranasan		
	C. Sree Narayana Guru	D. Sahodaran Ayyappan		
51.	Who is populary known as the Soc	rates of Maharashtra ?		
	A. Bal Gangadhar Tilak	B. Rajagopachalari		
	C. Bhagat Singh	D. Gopal Krishna Gokhale		
52.	The heroine of Quit India Moveme	ent is?		
	A. Annie Besant	B. Aruna Asaf Ali		
	C. Sarojini Naidu	D. Indira Gandhi		
53.	As Turkey is related to Ankara, Belgium is related to			
	A. Bishkek	B. Bern		
	C. Berlin	D. Brussels		
54.	The official residence of the presid	ent of France		
	A. White House	B. Malacanang Palace		
	C. Elysee Palace	D. Escorial		
55.	Konark Temple of Odisha was buil	It by		
	A. Narasimha II	B. Krishnadevaraya		
	C. Chandraguptha I	D. Narasimha I		
56.	Who is the father of sports education?			
	A. Ashley Cooper	B. H.C. Buck		
	C. Guru Dutt Sondhi	D. None of these		
57.	The first Indian shooter who won as	n individual gold medal in Olympics games is		
	A. Abhinav Bindra	B. Suseel Kumar		
	C. Nijendra Singh	D. Rajyavardhan Singh Rathore		

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58.	The world Computers Security Day is observed on	
	A. November 30	B. November 13
	C. August 30	D. December 13
59.	Which among the following is the	first web browser?
	A. Chrome	B. Opera
	C. Epic	D. Nexus
60.	Name the largest river island of Ke	erala
	A. Kuruva island	B. Masuli
	C. Nicobar island	D. Andaman island
61.	Which of the following countries h	nas world's oldest National Flag?
	A. England	B. Denmark
	C. France	D. America
62.	Write the year in which Suez Cana	l was nationalized
	A. 1656	B. 1756
	C. 1857	D. 1956
63.	The military operation conducted l	by America to liberate Iraq from Kuwait
	A. Operation Desert Fox	B. Operation Desert Storm
	C. Operation Blue Star	D. Operation Vijay
64.	Article 32 deals with	
	A. Right against exploitation	B. Right to freedom of religion
	C. Cultural and educational right	D. Right to constitutional remedies
65.	'Interpreter of Melodies' is the boo	ok written by
	A. Shashi Tharoor	B. Salman Rushdie
	C. Jhumpa Lahiri	D. Arundhati Roy
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66.	The famous book 'Poverty and Famines' is written by		
	A. Amartya Sen		B. Amit Chaudhuri
	C. Manjula Padmana	bhan	D. None of these
67.	Which among the fol	lowing is the	headquarters of Arab League ?
	A. Cairo		B. Tehran
	C. UAE		D. Jakarta
68.	The great person who	o is known as	Columbus in Space
	A. Tenzing Norgay		B. Edmund Hillary
	C. Neel Amstrong		D. Yuri Gagarin
69.	The British mathema	tician who wo	on 2016 Abel Prize for solving a centuries old hypothesis,
	Fermat's Last Theore	em	
	A. Yuen woo-ping		B. Sir Andrew Wiles
	C. Keith Emerson		D. Jim Harrison
70.	Land of thousands La	ake is	
	A. Switzerland		B. Egypt
	C. Belgium		D. Finland
71.	'Captain' is related to	'Soldier' in t	the same way as 'Leader' is related to
	A. Chair		B. Follower
	C. Party		D. Minister
72.	Six friends A,B,C,D,	E and F are si	tting in a row facing towards North .C is sitting between A
	and E. D is not at the	end .B is sittii	ng at the immediate right of E,F is not at the Right end ,but
	D is sitting at 3rd Let	ft of E.Which	of the following is sitting to the left of D?
	A. A	B. F	
	C. E	D. C	

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- 73. 36,28,24,22, ?
 - A. 18

B. 19

C. 21

D. 22

- 74. If the digit 12 of a clock is pointing towards East, then in wich direction will digit 9 point?
 - A. South

B. West

C. North

D. North – East

Direction (Q:Nos 75-79): In each of the questions below are given two statements followed by two conclusions numbered I and II. You have to take the two given statements to be true even if they seem to be at variance from commonly known facts and decide which of the given conclusion(s) logicaly follow(s) from the two given statements disregarding commonly known facts.

Give answers

A. If only conclusion I follows

B. If only conclusion II follows

C. If either I or II follows

D. If both I and II follow

75. Statements: Some cities are towns

Some villages are cities

Conclusions I At least some villages are towns

II No village is a town

76. Statements: Some pins are clips

Some clips are pens

Conclusions I Some pins are pens

II Some pins are not pens

77. Statements: All Ds are As

All As are Cs

Conclusion: I All Ds are Cs

II Some Ds are As

78. Statements: Some trees are plants

Are bushes are plants

Conclusion I At least some trees are bushes

II Some trees are definitely not bushes

79. Statements: All bottles are glasses

No cup is glass

Conclusions I No bottle is a cup

II At least some glasses are bottles

80. Two days before yesterday was Friday. Then what day of the week will be day after tomorrow?

A. Monday

B. Sunday

C. Saturday

D. Wednesday

81. The day on 18-09-1977 was Sunday . A couple was married on this date . How many marriage anniversaries would fall on Sunday in the next 15 years?

A. 1

B. 2

C. 5

D. 9

Direction (Q: nos 82-86): Read the following information carefully and answer the question given below.

At an electronic data processing unit, five out of the eight programm sets P,Q,R,S,T,U,V and W are to be operated daily. On anyone day, except for first day of the month ,only three of the programm sets must be the ones that were operated on the previous day. The programm operation must also satisfiy the following conditions.

- (a) If programm P is to be operated on a day ,V cannot be operated on that day .
- (b) If Q is to be operated on a day, T must be one of the programms to be operated after Q.
- (c) If R is to be operated on a day ,V must be one of the programms to be operated after R .
- (d)The last programm to be operated on any day must be either S or U .

82.	. Which of the following is true of any day's valid programm set operation?		
	A. P cannot be opera	ted at third place	B. Q cannot be operated at third place
	C. T cannot be opera	ted at the third place	D. R cannot be operated at fourth place
83.	If the programm sets	R and W are to be operate	ed on first day, which of the following could
	be the other program	ms on that day?	
	A. P,T,U	B. Q,S,V	
	C. Q,T,V	D. V,S,U	
84.	If the programm sets	operated on a day are P,Q,V	W,T and U, then each of the following could
	be the next days prog	gramms except	
	A. Q,R,V,T,U	B. Q,T,V,W,S	
	C. W,T,U,V,S	D. W,T,S,P,U	
85.	Which of the follow month?	ing could be the set of pro	gramm to be operated on the first day of a
	A. P,R,V,S,U	B. Q,S,R,V,U	
		D. U,Q,S,T,W	
86.			ich of the following cannot be second pro-
	If R is operated at third place in a sequence, which of the following cannot be second programm in that sequence?		
	A. Q	B. S	
	C. T	D. U	
87.	In a certain code lar	nguage 'TALK' is written	as '21213121' .Then how will 'PAINA' be
	coded in that language ?		
	A. 17212152	B. 17221251	
	C. 17221125	D. 17221152	
88.	In a certain code lar	nguage 'GRADUATE' is w	ritten as '2092623626722'. Then how will
	'ARIHANT' be writt	en in that language?	
	A. 269181926137	B. 269181926173	
	C. 269811926137	D. 269181962137	

- 89. In a certain code language 'PERFECT' is written as '116'. Then how will 'COMPACT' be written in that code?
 - A. 85

B. 111

C. 98

- D. 118
- 90. In a certain code language 'TRUE' is written as '8316'. Then how will 'TAP' be written in that code?
 - A. 3120
- B. 2002
- C. 2015
- D. 1122
- 91. In a certain code language 'SON' is written as '81213', 'LIFE' is writen as '15182122'. Then how will 'NEVER' be written in that language?
 - A. 13225229
- B. 22135229
- C. 13225292
- D. 13222529
- 92. If A=1 and ANT=35, then PAT=?
 - A. 32

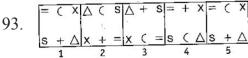
B. 47

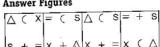
C. 25

D. 37

Direction (Q:Nos 93-96): Each of the questions consists of five figures marked 1,2,3,4,5 named as problem figures and is followed by four answer figures marked A,B,C and D. Select a figure from the answer figures which will continue the series as established by the five problem figures.





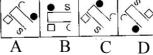


A B C D

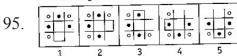
Problem Figures



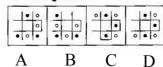


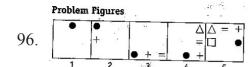


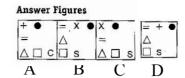
Problem Figures



Answer Figures







Direction (Q:Nos 97-100): Find the missing character in each of the following questions.

Space for rough works