NATIONAL TALENT SEARCH EXAMINATION, 2018 - 19

CENTRE CODE : -	
SEAT NO : -	_

STATE LEVEL EXAMINATION - QUESTION BOOKLET SCHOLASTIC APTITUDE TEST

CLASS X

MEDIUM: ENGLISH WITH MARATHI VERSION

[DATE: 4TH NOVEMBER, 2018]

[Time: 13:30 P.M. to 15:30 P.M.]

TIME: - 120 MINUTES MAXIMUM MARKS: - 100

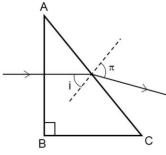
INSTRUCTIONS TO CANDIDATE

Read the following instructions carefully before you answer the questions. Answers are to be given on the separate answer sheet.

- Please write your Centre Code and Seat No. very clearly (only one digit in one block).
 Before writing your Seat No. get it ascertained from the centre Conductor. Please see that no block is left unfilled and even zeros appearing in the centre Code and Seat No. are correctly transferred to the appropriate blocks on the booklet and on the answer sheet.
- 2. All questions carry one mark each.
- 3. Since all questions are compulsory do not try to read question after another till you finish.
- 4. Begin with the first question and keep on trying one question after another till you finish.
- 5. If you do not know the answer to any question, do not spend much time on it and pass on to the next one. Time permitting you can come back to the questions which you have left in the first instance and try them again.
- 6. Since the time allotted is very short you should make best use of it. The rough work is to be done in the box given under each page.
- 7. Remember you have to mark on your answers in "Scholastic Aptitude Test" answer-sheet only.
- 8. Answer to each question is to be indicated in the answer sheet by encircling with black pen provided to you in the appropriate number of alternatives in the answer-sheet from amongst the ones given for the corresponding question in the test booklet.
- 9. Do not write anything except Centre Code, Seat No. and rough work anywhere in this booklet.
- 10. Now turn to the next page and start answering the questions.

1.	Value of acceleration due to gravity on ea		aximum at poles (2) equator	
	(3) depth of 60 km below earth's surface		(4) height of 400 km above earth's	s surface
2.	Magnetic field due to current through a (1) circular loop of conducting wire (3) solenoid	is	similar to magnetic field produced by a (2) rectangular loop of conductin (4) thick copper wire	
3.	Choose the wrong statement related to re (1) Twinkling of stars (2) Oval shape of sun in morning and e (3) Object in water appears bigger in siz (4) Red light undergoes dispersion, whi	vening ze		
4.	How much time the satellite will take to complete one revolution around the earth, if velocity of satellite is 3.14 km/s and its height above earth's surface is 3600 km. (Radius of earth is 6400 km)			ty of satellite is
	(1) 2000 S		(2) 20000 S	
	(3) 1000 S		(4) 10000 S	
5.	A planet in an orbit sweeps out an angl from sun. If the planet sweeps out an an is			
	(1) $56 \times 10^5 \text{km}$		(2) $56 \times 10^6 \text{ km}$	
	(3) $56 \times 10^7 \text{km}$		(4) $56 \times 10^8 \text{km}$	
6.	Observing the following table, choose the	correct a		
	Column I	40	Column II	
	A A -O ; x B	(i)	Image formed by concave lens	
	B A I O B	(ii)	Image formed by convex lens with object of 2F	
	C A O- B	(iii)	Image formed by convex lens with object beyond 2F	
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(iv)	Image formed by convex lens with object within focal length	
_	In Column I AB - principal axis of lens, O	– point ir	nage. Match the two Columns.	
	(1) $A = (i)$, $B = (ii)$, $C = (iii)$, $D = (iv)$		(2) $A-(iii)$, $B-(i)$, $C-(iv)$, $D-(iv)$	-(ii)
	(3) $A-(iv)$, $B-(iii)$, $C-(ii)$, $D-(i)$		(4) $A-(ii)$, $B-(iv)$, $C-(i)$, $D-(i)$	-(iii)
7.	How much heat energy in Joules is neces	ssary to ra	aise the temperature of 5 kg of water fro	m 20° to 100° ?
	(1) 1672 KJ	- , , . .	(2) 167200 J	,
	(3) 16720 J		(4) 1672 J	
	,,,		()	
	·			

8. A ray falls on a prism ABC(AB = BC) and travels as shown in figure. If refractive index of glass with respect to air is 1.5, find Sin r



- (1) $\frac{3}{\sqrt{2}}$
- (3) $\frac{\sqrt{2}}{3}$

- $(2) \quad \frac{3}{2\sqrt{2}}$
- (4) $\frac{2\sqrt{2}}{3}$
- 9. In a Helium gas discharge tube every second 40×10^{18} He⁺(ions) move towards the right through a cross section of the tube, while n electrons move to the left in the same time. If the current in the tube is 8A to towards right then n = ?
 - (1) 3×10¹⁸

(2) 3×10¹⁹

(3) 3×10²⁰

- (4) 3×10^{21}
- 10. Device/devices changing electrical energy into mechanical energy is/are....
 - l Electric generator
 - III Voltmeter
 - (1) I and II
 - (3) II, III and IV

(2) II and III

Electric motor

- (4) only II
- 11. A convex lens produces an image of an object on a screen with a magnification of $\frac{1}{2}$. When the lens is moved
 - 30 cm away from the away from the object, the magnification of the image is 2. The Focal length of the lens is
 - (1) 20 cm

(2) 25 cm

(3) 30 cm

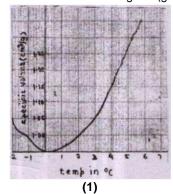
- (4) 35 cm
- 12. Two plane mirrors at an angle produces 5 images of point. The number of images produced when x^0 is decreased to $(x-30)^0$ is
 - (1) 9

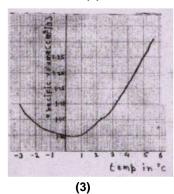
(2) 10

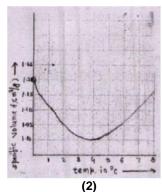
(3) 11

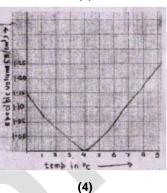
(4) 12

13. Choose the correct diagram (graph) showing anomalous behaviour of water









14. In which year National Chemical laboratory Pune was established?

(1) 1950

(2) 1995

(3) 2005

(4) 1989

15. Which is the chemical formula of red oxide?

(1) Fe₂O₃

(2) FeO₃

(3) FeO

(4) FeO₂

16. In water purification Fullerene is used as

(2) Insulator

(1) Fuel (3) Catalyst

(4) Reductant

17. Which block elements are called transition elements?

(1) S – block

(2) P - block

(3) D – block

(4) F – block

18. What is chemical formula of rust on Iron?

(1) Fe₂O₃

(2) $Fe_2O_3H_2O$

(3) FeO

(4) FeO₂

19. What is the percentage of Al₂O₃ is Bauxite?

(1) 30% to 70%

(2) 35% to 70%

(3) 30% to 75%

(4) 70% to 75%

20. Chemical formula of lime stone is

(1) Ca(OH)₂

(2) CaCO₃

(3) CaCl₂

(4) CCI₄

21. What is the condensed structural formula of alcohol?

(1) -OH

(2) -CHO

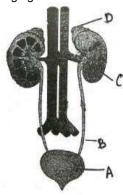
(3) -COOH

(4) -NH₂

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22.	In which of the following elements does not consists i (1) Carbon (3) Chlorine	(2) Neon (4) Iodine
23.	In which of the following ink silver nitrate is used? (1) Voting ink (3) Printing ink	(2) Writting ink(4) Marker pen ink
24.	To prevent the misuse of the important commercial so (1) Methanol (3) Ethanoic acid	olvent ethanol is mixed with (2) Propanol (4) Propane
25.	Chemical formula of cryolite is (1) NaAIF (3) Na ₂ AIF ₃	(2) Na ₃ AIF ₆ (4) Na ₂ AIF ₂
26.	Which of the following is not Dobereiner's Traide? (1) Li, Na, K (3) Ca, Sr, Ba	(2) CI, K, Cr (4) CI, Br, I
27.	By using only one of the two strands of DNA, mRNA (1) Transcription (3) Translocation	is produced this process is called as (2) Translation (4) Replacement
28.	Identify phase in mitosis shown by: centromeres spli separates and they are pulled apart in opposite direct (1) Telophase (3) Metaphase	t and thereby sister chromatids of each chromosomes tion. (2) Prophase (4) Anaphase
29.	If the embryonic cells are divided into two groups 8 d of formation of	lays after the zygote formation then there is high possibility (2) Siamese twins (4) Genetically different one boy one girl
30.	Which is the sequence of four whorls of flower from c (1) calyx → corolla → androceium → gynoceium (2) gynoceium → androceium → corolla → calys (3) calyx → androceium → corolla → gynoceium (4) gynoceium → corolla → androceium → calyx	outside to inside?
31.	Sunderban sanctuary of West Bengal is reserved for (1) Rhi (3) Tiger	
31.32.	(3) Tiger	no (2) Bison
	(1) Rhi (3) Tiger From the following which animal is warm blooded, proneck, trunk and tail. (1) Penguin	no (2) Bison (4) Asiaticlion esence of mammary glands and body divided into head, (2) Tortoise (4) Bat
32.	(1) Rhi (3) Tiger From the following which animal is warm blooded, proneck, trunk and tail. (1) Penguin (3) Pigeon In process of fermentation of production of wine from (1) Saccharomyces cerevisiae (3) Lactobacillus brevis	no (2) Bison (4) Asiaticlion esence of mammary glands and body divided into head, (2) Tortoise (4) Bat grapes which micro organism is used? (2) Aspergillus oryzae
32. 33.	(1) Rhi (3) Tiger From the following which animal is warm blooded, proneck, trunk and tail. (1) Penguin (3) Pigeon In process of fermentation of production of wine from (1) Saccharomyces cerevisiae (3) Lactobacillus brevis Given below pairs proteins of produced by biotechnol Protein Produced (1) Insulin (2) Erythropoietin (3) Interleukin (4) Interferon	no (2) Bison (4) Asiaticlion esence of mammary glands and body divided into head, (2) Tortoise (4) Bat grapes which micro organism is used? (2) Aspergillus oryzae (4) Aspergillus niger logy and disease they are used against. Find the odd pair. Disease Diabetes Anemia Cancer

37. Identify the adrenal gland from the following figure



- (1) A
- (3)

- (2) B
- (4) D
- 38. Identify the correct sequence for process of energy production from carbohydrates.
 - (1) Carbohydrates → Glycolysis → Pyruvic acid → AcetylCoA → Krebs cycle → CO₂ + H₂O + energy
 - (2) Carbohydrates → Glycolysis → Pyruvic acid → Krebs cycle → AcetylCoA → CO₂ + H₂O + energy
 - (3) Carbohydrates → Glycolysis → AcetylCoA → Pyruvic acid → Krebs cycle → CO₂ + H₂O + energy
 - (4) Carbohydrates \rightarrow Glycolysis \rightarrow AcetylCoA \rightarrow Krebs cycle \rightarrow Pyruvic acid \rightarrow CO₂ + H₂O + energy
- 39. Identify the function of columnar epithelium
 - (1) Selective transport of substances
 - (3) Secretion of digestive juice

- (2) Prevention of wearing of organs.
- (4) Reabsorption of useful materials from urine
- **40.** Body structure of different animals is given below. Identify to which phylum the animal belongs.
 - (1) Long, cylindrical, metamerically segmented.
 - (2) Triploblastic, bileterally symmetrical, eucoelomate.
 - (3) They have setae or parapodia or suckers for locomotion.
 - (1) Arathropoda

(2) Annelida

(3) Aschelminthes

- (4) Mollusca
- **41.** Who was the founder of modern Historiography?
 - (1) Voltair
 - (3) Karl Marx

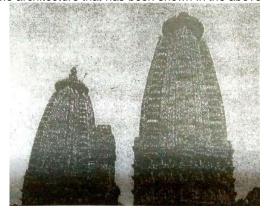
- (2) Michel Foucault
- (4) Rene Descartes
- **42.** Identify the wrong pair from the pairs given below.
 - (1) Who were the shudras
 - (2) Stri Purush Tulana
 - (3) Cambridge History of India
 - (4) The Indian war of Independence

- History of Subaltern
- Feminist writing
- Colonial Historiography
- Marxist History
- 43. The Main Office of National Film Archives of India is at
 - (1) Mumbai

(2) Pune

(3) Kolkata

- (4) Delhi
- **44.** Identify the style of the temple architecture that has been shown in the above picture?



- (1) Dravid
- (3) Nagara

- (2) Vesara
- (4) Bhoomija

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45.	Who started the First English Newspaper in India? (1) Alen Hume (3) James Augustus Hickey	(2) Sir John Marshal (4) Michel Foucault
46.	Who is known – as the first Keertankar of Maharashtra? (1) Saint Dnyaneshwar (3) Saint Namdev	(2) Saint Tukaram (4) Saint Eknath
47.	Write the name of the Wooden dolls made in Maharashti (1) Thaki (3) Gangavati	ra. (2) Kali Chandika (4) Champavati
48.	'Bhilar' – the villate near Mahableshwar is famous as the (1) Plants (3) Forts	'village of(2) Books (4) Mangoes
49.	Identify the wrong pair from the famous museums and its (1) Kolkata – Indian Museum (3) Hyderabad – Salarjang Museum	s location in India. (2) Delhi – National Museum (4) Mumbai – The Calico Museum of Textiles
50.	Who said that, 'the prevailing practice of arranging histor (1) Michel foucault (3) Leopold von Ranke	ical events in a chronological order is not right?' (2) Seamaw The Bolva (4) George Wilhelm friendrich Hegel
51.	Which style of architecture has been used to build, Chha (1) Muslim (3) Dravid	trapati Shivaji Maharaj Railway Terminus'? (2) Nagara (4) Indo – Gothic
52 .	6 th January is celebrated as day. (1) Right to information (3) Human Rights	(2) Journalist(4) Cleanliness
53.	is the birthdate of Major Dhyana Chand is celebrate (1) 28 October (3) 10 December	ed as the 'National Sports Day' in India. (2) 29 August (4) 14 April
54.	Under the leadership of Socialist leaderwomer to be known as 'Laatne Morcha' (1) Pramila Dandavate (3) Gaura Devi	n in Mumbai participated in a demonstration which came (2) Mrinal Gore (4) Dr. Phulrenu Guha
55.	Which industry is known as 'Sunrise Sector of India? (1) Jute industry (3) Cement industry	(2) Automobile industry(4) Khadi and Village industry
56.	In the year 1983, The Indian cricket team won the world (1) Sunil Gavaskar (3) Sayyed Kirmani	Cup under the captainship of (2) Sandip Patil (4) Kapil dev
57.	Several attempts were made towards democratic decent amendment to Indian constitution (1) 71 and 72 (3) 73 and 74	ralisation. One of these attempts was the (2) 72 and 73 (4) 74 and 75
58.	Identify the article of the Indian Constitution, which has ϵ (1) Art – 314 (3) Art – 334	established Election Commission as autonomous body? (2) Art – 324 (4) Art – 344
59.	Who appoints the Election Commissioner in India? (1) President (3) Speaker of Loksabha	(2) Prime Minister(4) Vice President
60.	Which one of the following is incorrent / wrong pair in cor (1) Chota Nagpur – Ramoshi (3) Maharashtra – Koli	ncern with the region & the movement raised in it? (2) Orissa – Gond (4) Bihar – Munda
61.	Which one of the following is irrelevant to the challenges (1) Terrorism (3) Naxlism	faced by the Indian Democracy? (2) Corruption (4) Environmental Degradation

62.	The essence of Democracy is (1) Universal Adult Franchise (3) Policy of reservation of seats	(2) Decentralisation of power (4) judicial decisions
63	Identify the Nation which is not a Member of 'BRICS' – a (1) India (3) China	n International Organization? (2) England (4) Russia
64.	In 2005 The Indian U.S Civil Nuclear Agreement was si Bush – the American President (1) Rajiv Gandhi (3) Dr. Manmohan Singh	gned bythe prime Minister of India and George W (2) P.V. Narsimha Rao (4) Atal Bihari Vajpayee
65.	India has no coastline along thedirection (1) East (3) South	(2) West (4) North
66.	Identify the oddman out (1) snow (3) Ice	(2) hailstone (4) rain fall
67.	Through India has a higher national income as compare Brazil because	d to Brazil, the per capita income of India is lower than (2) The population of India is less (4) The population of Brazil and India is equal
68.	Identify the wrong statement, regarding Importance of Po (1) Expansion of trade (3) Tourism Development	opulation(2) Rapid Industrialization (4) Lack of employment opportunities
69.	India too has a large longitudinal extent. The difference to (1) 110 (3) 130	poetween the two extreme most points is (2) 120 (4) 140
70 .	Find out the odd man out from given options (1) Ganga (3) Sindhu	(2) Sabarmati (4) Yamuna
71.	Which type of settlement has been found at the uneven (1) Nucleated (3) Dispersed	topography of Himalaya? (2) Linear (4) Star – Shaped
72 .	Which one is not the mean of Communication? (1) Computer (3) Internet	(2) Mobiles (4) Encyclopaedia
73.	Identify the correct option from pairs given below State (A) Maharashtra (B) Rajasthan (C) Uttarkhand (D) Tamilnadu (1) A – III, B – IV, C – II, D – I (3) A – II, B – I, C – III, D – IV	Travel Place (I) Udagmandalam (II) Masoori (III) Aajintha (IV) Jaisalmer (2) A – IV, B – III, C – I, D – II (4) A – I, B – II, C – IV, D – III
74.	Which country do not share their border with Brazil? (1) Argentina (3) Peru	(2) Myanmar (4) French Guiana
75 .	Identify the correct options of pairs given below 'A' Group (A) Temperature Grasslands (B) Thorny Shrubs (C) Tropical Grasslands (D) Equatorial forests (1) A - I, B - II, C - IV, D - III (3) A - III, B - I, C - II, D - IV	'B' Group (I) Savanna (II) Amazon River Basin (III) Coatinga (VI) Pampas (2) A – II, B – IV, C – III, D – I (4) A – IV, B – III, C – I, D – II

76. Which river has been shown with letter 'A' in the given outline map of Brazil?



(1)	١	Pa	ra	a	แลง
(1	,	гα	пa	u	uα

(2) Paraniba

(3) Urugway

(4) Purus

is a large coastal island located between the mouths of River Amazon and River Tocantins. 77.

(*	1) 5	Sao F	rancisco

(2) Marajo

(3) Marcos

(4) Rio

78. Identify the correct option of pairs given below

Group 'A'	Group 'B'	Group 'C
Region	Average Rain fall	Type of Forest
(A) Giana Highlands	(I) 1500 mm	(P) Temperate Grasslands
(B) Amazon Basin	(II) 600 mm	(Q) Deciduous Forests
(C) Paraguay-Parana Basin	(III) 1600 mm	(R) Tropical Forests
(D) Brazilian Highland	(IV) 2000 mm	(S) Equatorial Forests

(1)
$$A - III - R, B - IV S, C - I - Q, D - II - P$$

(4)
$$A - II - Q$$
, $B - I - P$, $C - IV - S$, $D - III - F$

79. Choose the correct option of favourable factors for highest population density

- fertile land agriculture development dry desert area (2)
- plain lands development of industry hilly regions (3)
- hilly regions dense forest area fertile land

In which district of Meghalaya - the highest rainfall place Mawsynram is situated? 80.

(2) Jaitiya

(3)Khasi Dispur

81. Which of the following two linear equations have only one unique solution x = 2 & y = -3

(1)
$$x + y = -1$$
; $2x - 3y = -5$

(2)
$$2x + 5y = -11$$
; $4x + 10y = 22$

(3)
$$2x - y = 1$$
; $3x + 2y = 0$

(4)
$$x + 4y - 14 = 0$$
; $5x - y - 13 = 0$

If $\alpha + \beta = -3$ and $\alpha\beta = -\frac{5}{2}$ the find the quadratic equation whose roots are α and β ? 82.

(1)
$$2x^2 - 5x + 6 = 0$$

(2)
$$2x^2 - 6x + 5 = 0$$

(3)
$$2x^2 + 6x - 5 = 0$$

(4)
$$2x^2 - 6x - 5 = 0$$

83. What is the probability having 53 Thursdays in ordinary year (except leap year)?

(2)
$$\frac{3}{7}$$

(3)
$$\frac{1}{7}$$

$$(4) \frac{4}{7}$$

How many natural numbers between 15 to 500 when divided by 6 leave remainder 5? 84.

(A) $\frac{1}{8}$ (C) $\left(-1\right)$

(D) 8 -1 √√512

(1) A and C

(2) B, C and D

(1) Aand C (3) A, Band C (4) A, C and D

86. If roots of the quadratic equation $3ax^2 + 2bx + c = 0$ are in the ratio 2 : 3 then which of the following statement is true?

(1) 8ac = 25b

(2) $8ac = 9b^2$

(3) $8b^2 = 9ac$

(4) $8b^2 = 25ac$

87. If Arithmetic Progression there are n terms (n is odd) and middle term is m then what Sn = ?

(1) $\frac{mn}{2}$

(2) mn

(3) 2mn

(4) mn²

88. If N = 70, h = 10, c. f = 22, f = 10, L = 30 then using this information find median?

(1) 42

(2) 45

(3) 43

(4) 34

89. Two dice are rolled simultaneously, what is the probability of getting sum of the digits on the upper face as a prime number?

(1) $\frac{5}{36}$

(2) $\frac{5}{12}$

(3) $\frac{5}{18}$

(4) $\frac{11}{36}$

90. The number formed when 5 is subtracted after multiplying by 8 to the sum of digits of a two digit number is equal to the number formed when 3 is added after multiplying by 16 to the difference of digits in a number. What is the number?

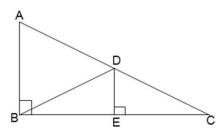
(1) 83

(2) 84

(3) 85

(4) 78

91. In the adjoining figure \triangle ABC is right angled triangle. Point D is the midpoint of hypotenuse AC. Segment DE \perp side BC, m \angle ABD = 70° then find m \angle CDE – m \angle DBE = ?



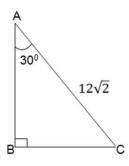
(1) 70°

(2) 20°

(3) 50°

(4) 30°

92 Observe the adjoining figure. From the given information the perimeter of the triangle is given below. Choose the correct alternative



(A) $(182\sqrt{66})$

(B) $(6.3\sqrt{12.2})$

(C) $(18 + 6 3) \sqrt{2}$

(D) (18 + 6.6) $\sqrt{2}$

Cand D

- (2) A and C (4) Only D
- 93. Read the following statements carefully and choose the correct alternative
 - The ratio of the circumference of a circle to its diameter is denoted by the Greek letter π .
 - π is non terminating recurring decimal fraction and its exact value is

Alternatives:

Statements A and B false

- (2) Statements A and B correct
- Statement A correct but B false
- (4) Statement A false but B correct
- 94. Read the following statement carefully and choose the correct alternative.
 - (A) The slope of the line parallel to X-axis can be derived by the formula $\frac{x_2 x_1}{y_2 y_1}$
 - The slope of the line parallel to Y-axis is 1
 - (C) The cotangent ratio of an angle made by the line with the positive direction of X-axis is called the slope of
 - (D) The slope of the line which makes acute angle with X-axis is less than zero and the slope of the line making obtuse angle with X-axis is greater than zero.

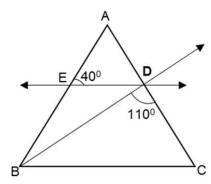
Alternative:

(1) Statement A and B correct

(2) Statement C and D correct

(3) only statement Cis wrong

- (4) All statements are wrong
- In the adjoining figure ray BD bisects ∠ABC of ΔABC seg ED side BC m∠AED = 40° and m∠BDC = 110° 95. then find the measurements of ∠EDB and ∠DCB respectively. Choose the correct alternative from the following.



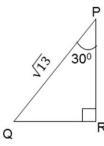
 20° and 50°

(2) 50° and 20°

40° and 50°

 40° and 70°

In $\triangle PQR$ M $\angle R = 90^{\circ}$, M $\angle P = 30^{\circ}$, PQ = $\sqrt{13}$. From the given information find the value of cosec60° – sec 60° 96.



- In right angled triangle ABC $M\angle B = 90^{\circ} \triangle ABC$ is in the first and second quadrant on the graph paper. The co-97. ordinator of the points A and C are (2, 5) and (-2, 3) respectively. Find the possible pairs of co-ordinates of point B from the following alternatives
 - (1) (2,5) or (2,3)

(2) (5, 2) or (3, 2)

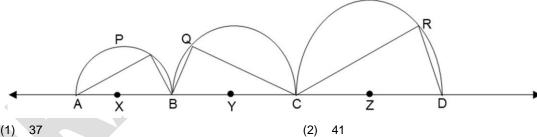
(3) (-2, 2) or (5, 3)

- (4) (2, -2) or (5, 3)
- 98. Choose the correct figure that has all the following properties
 - (A) Both the diagonals are congruent
 - It is called as rectangle
 - The perimeter of the figure is four times its length or breadth
 - (D) It is Rhombus
 - Rhombus

(2) Rectangle(4) Square

Trapezium

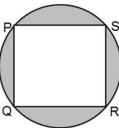
- 99. In the figure semi-circles are drawn whose centre are X, Y Z respectively. Points (X, Y, Z); are collinear points (X - Y - Z) AX = 2.5, BY = 6.5, CZ = 8.5 and AP + QC = 16; QC + CR = 27 and CR + AP = 19 then find the value of AP + PB + BQ + QC + CR + RD = ?



- (1)
- (3) 53

100.

- (4) 47
- In the figure PQRS is a cyclic quadrilateral. If the area of the shaded part is $\frac{72}{7}$ sq. units. Then find the radius of
- the circle



- (1) $\sqrt{7}$ units
- (3) 3 units

- (2) 4 units
- (4) 2 units