

SATISH INTERNATIONAL SCHOOL BHAIRAVNAGAR PUNE - 411015 8830597066

SAINIK SCHOOL PAPER 4 ENTRANCE EXAM - SAINIK SCHOOL (CLASS 9)

Time Allowed: 3 hours Maximum Marks: 400

General Instructions:

- i. This question paper booklet contains FIVE sections. Section "A" Mathematics contains 50 questions of 4 marks each. Section "B" English, Section "C" General Science, Section "D" Social Studies and Section "E" Intelligence contain 25 questions each, of 2 marks per question. In all, the paper consists of 150 questions for a total of 400 marks. Answer all
- ii. The duration of the test is 3 hours. There is no negative marking for a wrong answer.

Section - A: Mathematics

- 1) Which of the following numbers is divisible by 99? [4]
 - a) 913462
- b) 135792
- c) 357240
- d) 114345
- 2) If A3 + 8B = 150, then the value of A + B is [4]
 - a) 13

b) 17

c) 12

- d) 15
- 3) The product of two numbers is $-\frac{28}{27}$. If one of the numbers is $\left(-\frac{4}{9}\right)$, then the other number is ____. [4]

- 4) Find $\frac{7}{8} + \left(-\frac{5}{16}\right) + \left(-\frac{9}{16}\right) + \frac{5}{8}$ [4]

c)

- 5) $0.\overline{23} + 0.\overline{22} = [4]$
 - a) $0.\overline{45}$

b) $0.\overline{43}$

c) 0.45

- d) $0.4\overline{5}$
- 6) Solve: 3(t 3) = 5(2t + 1) [4]
 - a) 2

b) - 2

c) 3

- d) 3
- 7) If $x = \frac{1}{2}$, then the value of $x + \frac{1}{1 + \frac{1}{1 + \frac{1}{x}}}$ is equal to [4]
 - a)

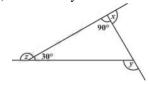
c)

- d)
- 8) 27 when added to twice a number x, and then increased by 13, gives us 60. The value of x is [4]
 - a) 15

b) 20

c) 5

- d) 10
- 9) Find x + y + z.



- [4] a)
 - 360°

b) 210°

- d) 180°
- 10) Find the value of the unknown y in given parallelogram.



- [4]
- 100° a)

b) 120°

40° c)

d) 80°

- 11) In a Rhombus ABCD, if AB = AC, then BCD =
 - 120° a)

b) 60°

c) 108°

- d) 72°
- 12) The paper is a model for a _
 - a) Point
- b) Circle
- c) Border
- d) Plane surface
- 13) $\left(-\frac{5}{7}\right)^{-5}$ is equal to [4]
- 14) The value of $\left(\frac{1}{8}\right)^2$ is [4]

- 15) The repeated factor in an exponential expression is called . [4]
 - a) Power
- b) Base
- c) Exponent
- d) Constant
- 16) If the volume of a cubical box is 35.937 m³, what is the length of its one side? [4]
 - a) 6.3 m
- b) 6.6 m
- c) 3.3 m
- d) 3.6 m
- 17) Find the cubes of x, 4x and 5x. [4]
 - a) 4x³, 9x³, 16x³ c) 8x², 27x², 64x²
- b) X^3 , $64x^3$, $125x^3$
- d) $4x^2$, $9x^2$, $16x^2$
- 18) Which of the following would end with digit 4?
 - i. 302^2
 - ii. 305^2
 - iii. 306^2
 - iv. 307^2

b) D

a) Α C c)

[4]

- d) B
- 19) The smallest natural number which when added to the difference of squares of 17 and 13 gives a perfect square
 - is: [4] a) 24

b) 5

c) 11

- 20) Multiply (x y) and (3x + 5y). [4]
- a) 2xy b) $3x^2 + 2xy 5y^2$ c) $5x^2 + 2xy 5y^2$ d) $3x^2 + 2xy 7y^2$

21)	Mohit	wants	to buy	a rec	tangular	field	whose	perimeter
	is $(4a^2)$	+ 6ab	$+ 2b^2$)	units.	If its 1	ength	is (a +	$b)^2$ units,
	then fi	ind its	breadth	. [4]				

a) $(a^2 + ab)$ units

b) $(b^2 - ab)$ units

c) $(a^2 - ab)$ units

d) $(b^2 + ab)$ units

22) If a car can go 90 km on 6 litres of petrol, then the car can go ____ km on 10 litres of petrol. [4]

a) 150

b) 120

c) 80

d) 100

23) A TV with marked price ₹16000 is available on 15% discount. The selling price of TV is [4]

a) ₹15000

b) ₹11000

c) ₹13600

d) ₹14760

24) A shopkeeper sells a pen set at 20% profit to another shopkeeper who sells it at a loss of 20%. If price of pen set was ₹112, what is net profit or loss on total transaction? [4]

a) 4% profit

b) 2% profit

c) 4% loss

d) 2% loss

25) At compound interest, if a certain sum of money doubles in n years then the amount will be four fold in [4]

a) 2n years

b) N² years

c) 4n years

d) 2n² years

26) If the rent for grazing 40 cows for 20 days is ₹370, how many cows can graze for ₹111 for 30 days? [4]

a) 8

b) 60

c) 30

d) 25

27) A university has its own hostel for its students. It provides fooding and lodging to the students. Due to festive season some of the students are left for their home and 100 students stays in the hostel. There is a food provision for 20 days for these students. How long the food will last if 25 more students decide to stay back in the hostel? [4]

a) 16 days

b) 13 days

c) 12 days

d) 14 days

28) A can complete a work in 12 days. A and B both working together can complete the same work in 4 days. B alone can complete the work in [4]

a) 2 days

b) 6 days

c) 8 days

d) 10 days

29) Divide: $24xy^2z^3$ by $6yz^2$ [4]

a) 4yz

b) 4xy

c) 4xyz

d) 4xz

30) Factors of $16x^2$ - $72xy + 81y^2$ - 12x + 27y are [4]

a) (4x - 9y)(4x + 9y - 3)

b) (4x + 9y)(4x + 9y - 3)

c) (4x - 9y)(4x - 9y - 3)

d) (4x + 9)(4x - 9y + 3)

31) Two persons walk each other 7: 30 am. If their speed are 4 km/h and 6 km/h and initially their distance is 25 km, then in what time they will meet to each other? [4]

a) 9:30 am

b) 10:30 am

c) 10:00 am

d) 8:30 am

- 32) A motorcyclist completes a certain journey in 5 hours. He covers one third distance at 60 km/hr and the rest at 80 km/hr. The length of the journey is [4]
 - a) 360 km

b) 240 km

c) 300 km

d) 180 km

33) A man crosses a 600 m long bridge in 5 min speed of

man (in km/h) will be [4]

a) 7.2

b) 9.6

c) 8.4

- d) 3.6
- 34) A train 540 meters long is running with a speed of 54 kmph. The time taken by it to cross a tunnel 180 meters long is? [4]
 - a) 52 sec

b) 48 sec

c) 44 sec

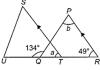
d) 40 sec

- 35) Which of the following statements is incorrect?
 - i. Two triangles having same area are congruent.
 - ii. If two sides and one angle of a triangle are equal to the corresponding two sides and the angle of another triangle, then the two triangles are congruent.
 - iii. If the hypotenuse of one right angled triangle is equal to the hypotenuse of another right angled triangle, then the triangles are congruent.

iv. All of these

[4]

- a) Option (a)
- b) Option (b)
- c) Option (d)
- d) Option (c)
- 36) In the figure (not drawn to scale), RTQU is a straight line. Find the value of b a.



[4]

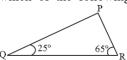
a) 49°

b) 36°

c) 34°

d) 48°

37) Angles Q and R of a△ PQR are 25° and 65°. Write which of the following is true:



Γ**Δ**1

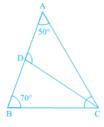
a) $PQ^2 + QR^2 = RP^2$

b) None of these

c) $RP^2 + QR^2 = PQ^2$

d) $PQ^2 + RP^2 = QR^2$

38) In \triangle ABC, \angle \square = 50°, \angle B = 70° and bisector of \angle C meets AB in D Figure Measure of \angle ADC is.



[4]

a) 70°

b) 30°

c) 50°

d) 100°

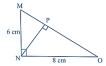
- 39) In a triangle, one angle is of 90° . Then
 - i. The other two angles are of 45° each
 - ii. In remaining two angles, one angle is 90° and other is 45°
 - iii. Remaining two angles are complementary In the given option(s) which is true? [4]
 - a) (iii) only

b) (i) only

c) (i) and (ii)

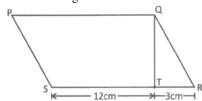
d) (ii) only

40) In a figure MNO is a right - angled triangle. Its legs are 6 cm and 8 cm long. Length of perpendicular NP on the side MO is



[4]

- 2.4 cm a)
- b) 1.2 cm
- c) 4.8 cm
- d) 3.6 cm
- 41) Find the area of a parallelogram PQRS if the area of shaded triangle is 18cm².



[4]

- 198 cm^2 a)
- b) 180 cm²
- 165 cm^2 c)
- d) 150 cm^2
- 42) The front wheels of a wagon are 2π m in circumference and the back wheels are 3π m feet in circumference. When the front wheels have made 10 more revolutions than the back wheels, how many metres has the wagon travelled? [4]
 - a) 16π

 20π b)

c) 23π

- 60π d)
- 43) Find the total surface area of a cube whose side is 14 cm. [4]
 - 1170 cm^2 a)
- 1175 cm^2
- 1296 cm^2
- d) 1176 cm^2
- 44) The circumference of a circle disc is 88 cm. Its radius is [4]
 - a) 8 cm

- b) 14 cm
- c) 11 cm
- d) 44 cm
- 45) What is the upper limit of the class interval 30 -

Class Interval	Frequency
0 - 10	1
10 - 20	6
20 - 30	12
30 - 40	20
40 - 50	6
Total	45

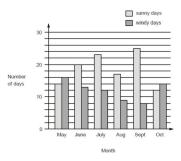
[4]

20 a)

30 b)

c)

- 10
- 46) How many more sunny days than windy days were there in June? The chart shows the number of sunny days and the number of windy days in six months



[4]

a)

8 b)

c)

- 47) The marks (out of 100) obtained by group of students in a mathematics test are 80, 79, 84, 92, 77, 64, 57, 75, 80, 54, 72 and 78. Based on this information, choose the statement which is correct? [4]
 - a) The range of the data is 63.
 - b) Median of the data is 77.
 - c) The mode of the data is 84.
 - d) The range of the data is 36.
- 48) A bag contains 3 red and 2 blue marbles. A marble is drawn at random. What is the probability of drawing a red marble? [4]
 - a)

c)

- 49) On tossing a coin, the outcome is [4]
 - a) Either head or tail
 - b) Only head
 - c) Only tail
 - d) Neither head nor tail
- 50) What is the probability of choosing a vowel from the alphabets? [4]
 - $\frac{21}{26}$ a)

c) $\frac{3}{26}$

Section - B: English

51) Select the word or phrase that is most closely opposite in meaning to the capitalized word.

CAUTIOUSLY [2]

- a) Carelessly
- Genuinely
- c) Carefully
- d) Secretly
- 52) Choose the appropriate synonym: Famous [2]
 - a) Unpopular
- Well known b)
- c) Fictitious
- d) Unknown
- 53) Choose the correct verb:

Asha Bhonsle was Life Time Achievement Award in IFFA 2014 in Dubai. [2]

a) Given

b) Giving

Give c)

- d) Gave
- 54) Many a girl _____ the movie. [2]
 - See a)
- Have seen b)
- c) Are going to see
- d) Has seen
- 55) Choose the correct option for tense:

The climate of the city ____ mild and pleasant most of the time. [2]

- a) Is remaining
- b) Is remained
- Remains c)
- d) Was remaining

Question No. 56 to 60 are based on the given text. Read the text carefully and answer the questions:

Most of us use the products of science railways, aeroplanes, electricity, wireless and thousands of otherswithout thinking how did they come into existence. We take them for granted, as if we were entitled to them as a matter of right. And we are very proud of the tact that we live in an advanced age and and ate ourselves so very advanced. Now, there is no doubt that our age is a very different one from previous ages and I think it is perfectly correct to say that it is far more advanced. But that is a different thing from saying that we as individuals or groups are more advanced. It would be the height of absurdity to say that because an engine driver can run an engine and Plato or Socrates could not, the engine driver is more advanced than, or is superior to, Plato or Socrates. But it would be perfectly correct to say that the engine itself is a more advanced method of locomotion than Plato's chariot was.

- 56) Which one of the following statements is correct?
 - i. An engine driver cannot be compared to Plato or Socrates
 - ii. Plato or Socrates is in no way inferior to the engine driver
 - iii. Plato or Socrates surpassed the engine driver in every respect
 - iv. An engine driver is cleverer than Plato or Socrates [2]
 - a) Option (iii)
- b) Option (i)
- c) Option (ii)
- d) Option (iv)
- 57) According to the passage, the worddoubt means [2]
 - a) Unsureness
- b) Distinct
- c) Precise
- d) Surity
- 58) Many of us make use of machines
 - i. With full knowledge of their genesis
 - ii. Without knowing how were they invented
 - iii. With very little knowledge of their mechanism
 - iv. Without any knowledge of their historical significance

[2]

- a) Option (iv)
- b) Option (ii)
- c) Option (iii)
- d) Option (i)
- 59) In this passage, the writer mentions Plato and Socrates to emphasise that
 - i. They had a great respect for learning
 - ii. They were men of great scholarship
 - iii. People as individuals in the modern age are not more advanced than their predecessors
 - iv. The engine is a better mode of locomotion than Plato's chariot

[2]

- a) Option (ii)
- b) Option (iv)
- c) Option (iii)
- d) Option (i)
- 60) Which is not the product of Science? [2]
 - a) Aeroplanes
- b) Wireless
- c) Electricity
- d) Wood
- 61) This is Priyas grammar book. (punctuation) [2]
 - a) Comma
- b) Quotation mark
- c) Colon
- d) Apostrophe
- 62) To play second fiddle: [2]
 - a) To reduce importance of one's senior.
 - b) To be in a subordinate position and support the role and view of another person.
 - c) To do back seat driving.

- d) To be happy, cheerful and healthy.
- 63) Every cloud has a silver ____. [2]
 - a) Colour
- b) Lining

c) Hue

- d) Touch
- 64) Forgot/I/to take/lunch box/school/to/my (correct order) [2]
 - a) I forgot my school to take to lunch box.
 - b) I forgot to take my lunch box to school.
 - c) I forgot my lunch box to take to school.
 - d) I forgot to take my school to lunch box.
- 65) Choose the appropriate adjective:

I ate ____ apple. [2]

a) That

b) The

c) One

- d) Some
- 66) I don't like that photo. It looks really _____. [2]
 - a) Beautiful
- b) Tired
- c) Ugly
- d) Sad
- 67) He writes poetry. (passive voice) [2]
 - a) Poetry was written by him.
 - b) Poetry had been written by him.
 - c) By him poetry is written.
 - d) Poetry is written by him.
- 68) I see a clear sky. (passive voice) [2]
 - a) A clear sky can be seen by me.
 - b) A clear sky will be seen by me.
 - c) A clear sky is seen by me.
 - d) A clear sky was seen by me.
- 69) Which part of the given sentence is erroneous? In case, there is no error, choose option (d).
 - i. I will watch film
 - ii. If I finish the work
 - iii. In time.
 - iv. No error

[2]

- a) Option (d)
- b) Option (a)
- c) Option (c)
- d) Option (b)
- 70) Which part of the given sentence is erroneous? In case, there is no error, choose option (d).
 - i. I shall leave school
 - ii. As soon as
 - iii. I shall find a job.
 - iv. No error

[2]

- a) Option (c)
- b) Option (d)
- c) Option (b)
- d) Option (a)
- 71) Rahul is good Biology. [2]
 - a) In

b) At

c) For

- d) On
- 72) This is a comfortable house to live ____. [2]
 - a) At

b) In

c) By

- d) On
- 73) Iron is ____ than wool. [2]
 - a) Heavy
- b) Heavier
- c) Heavying
- d) Heaviest
- 74) Choose the answer that tells whether the capitalized noun is used as a subject, direct object, or predicate:

 Sherlock Holmes is a famous fictional DETECTIVE. [2]
 - a) Predicate noun
- b) Subject
- c) Object
- d) Direct object

75) I needed a blue pen I asked my friend. (conjunc-	a) Cervix b) Uterus
tion) [2] a) But b) And c) So d) Or	c) Vulva d) Vagina 85) Which one of the following is correctly matched? i. Adrenaline - Growth hormone
Section - C : General Science	ii. Insulin - Female hormoneiii. Oestrogen - Stress reliever hormoneiv. Testosterone - Male hormone
76) Leaving the agricultural land uncultivated for one or more seasons is known as [2] a) Manuring b) Crop rotation c) Field fallow d) Threshing	a) Option (ii) b) Option (iv) c) Option (i) d) Option (iii)
77) Which of these is obtained from red algae and used as a medium in tissue culture [2] a) Algin b) Agar - Agar c) Chlorellin d) Lamination	 86) When batsman hits the ball, it changes its [2] a) Changes its direction only b) Shape and size c) Changes its speed only d) Direction as well as speed
 78) Read the following statements: i. Petroleum fractions include fuel as well as non fuel products. ii. Crude oil itself can be used for many useful purposes. [2] a) Both are correct b) Statement ii) is correct but i) is wrong c) Statement i) is correct but ii) is wrong d) Both are wrong 	 87) Which of the following statements is/are correct? Gravitational and frictional are non - contact Friction is contact force and magnetic force contact force. Muscular is contact force and gravitational for non - contact force. Nuclear and gravitational are non - contact force [2] Statement I, II and III are correct
79) Which of these petroleum products is used for heavy motor vehicles? [2] a) LPG b) Diesel	 b) Statement I, III and IV are correct. c) Statement II, III and IV are correct. d) Statement I, II and IV are correct. 88) If we tighten the strings of an instrument then the
c) Petrol d) Kerosene 80) Mohan was sitting in his drawing room watching television. Suddenly his television wires caught fire but to get rid off this fire he should not use: [2] a) Water b) Sand c) Soil d) Both water & soil	will be [2] a) No pitch b) Constant c) Higher d) Lower 89) Sodium ion is converted into sodium metal at c when liquid NaCl is electrolysed, [2]
 81) Select the correct statements. Both soda acid type and foam type extinguisher cannot be used in fighting electrical fires. Liquid carbon dioxide can be used for both electrical and oil fires. Gaseous fuels are better than solid or liquid fuels. Burning of charcoal produces flame with four distinct zones. 	a) By giving out electrons b) By Cl - ions are reduced c) By reacting with chloride ion d) By accepting electrons 90) The tremendous electric charges in the atmosphere produces sheet lightning in the clouds are produce the process of [2] a) Friction b) Convection c) Conduction d) Induction
a) I and IV onlyb) I, II, III and IV onlyc) III and IV onlyd) II and III only	91) A person is not able to view the nearby object but can see far object distinctly. He is suffering fr a) Presbyopia b) Astigmatism c) Hypermetropia d) Myopia
82) Read the following statements:i. Animals cannot be maintained outside their habitats.ii. Plants can be maintained outside their habitats in botanical gardens.	92) Which of these explain the image of building or river or pond? [2] a) Paucity b) Reflection c) Refraction d) Luminosity
 a) Statement i) is correct but ii) is wrong b) Both are correct c) Statement ii) is correct but i) is wrong d) Both are wrong 	 93) Which of the following is wrong about outer plane a) They all are visible only during night b) They all are formed by rocks and They all rings of gaseous material around them c) They all contain rings of gaseous material
83) Light pollen grain is carried by [2] a) Insects b) Water c) Bats d) Wind	them d) They all are formed by rocks.
84) External genitalia of human female is called as [2]	94) The main element to be used in manufacturing mat - [2]

i. Gravitational and frictionaii. Friction is contact forcecontact force.	
iii. Muscular is contact force non - contact force.iv. Nuclear and gravitational	
[2]	are non - contact forces.
a) Statement I, II and III arb) Statement I, III and IV ac) Statement II, III and IV ad) Statement I, II and IV ar	re correct. are correct.
If we tighten the strings of an will be [2] a) No pitch c) Higher	b) Constant d) Lower
Sodium ion is converted into when liquid NaCl is electrolys	
 a) By giving out electrons b) By Cl ions are reduced c) By reacting with chloride d) By accepting electrons 	
The tremendous electric charge produces sheet lightning in th the process of [2] a) Friction c) Conduction	
A person is not able to view but can see far object distinctly a) Presbyopia c) Hypermetropia	
Which of these explain the imriver or pond? [2] a) Paucity c) Refraction	b) Reflectiond) Luminosity
Which of the following is wron	ng about outer planets? [2]
 a) They all are visible only b) They all are formed by rings of gaseous material c) They all contain rings of them d) They all are formed by remarks 	rocks and They all contain around them f gaseous material around
The main element to be used in - [2]	n manufacturing match box

- a) Phosphorus
- b) Sulphur
- c) Magnesium
- d) Silicon

95)

The given table shows the amount of DDT accumulated in the bodies of few aquatic animals.

in the bodies of few a	iquatic ammais.
Animals	DDT
	(ppm) .02 ppm
X	.02 ppm
Y	20 ppm
Z	18 ppm
W	2 ppm

[2]

- a) $Z \rightarrow W \rightarrow X \rightarrow Y$
- b) $Y \rightarrow X \rightarrow Z \rightarrow W$
- c) $W \rightarrow X \rightarrow Y \rightarrow Z$
- d) $X \rightarrow W \rightarrow Z \rightarrow Y$
- 96) Which of the following represents the correct match for

items in Column A wi	<u>ith those in Column B:</u>
Column A	Column B
(a) Nylon	(i) Thermoplastic
(b) PVC	(ii) Thermosetting plastic
(c) Bakelite	(iii) Fibre

[2]

- a) (a) (ii), (b) (i), (c) (iii)
- b) (a) (iii), (b) (ii), (c) (i)
- c) (a) (iii), (b) (i), (c) (ii)
- d) (a) (ii), (b) (iii), (c) (i)
- 97) Read the following statements:
 - i. Fibres are made from fabrics.
 - ii. Fabrics are made from fibres.

[2]

- a) Statement ii) is wrong and i) is correct
- b) Both are correct
- c) Both are wrong
- d) Statement i) is wrong and ii) is correct
- 98) Read the following statements:
 - i. All cells are microscopic.
 - ii. Cells are structural and functional units of life.

[2]

- a) Statement i) is correct but ii) is wrong
- b) Statement ii) is correct but i) is wrong
- c) Both are wrong
- d) Both are correct
- 99) A brick is kept in three different ways on a table as shown in Fig. The pressure exerted by the brick on the table will be



[2]

a) Equal in all cases

- b) Maximum in position A
- c) Maximum in position C
- d) Maximum in position B
- 100) Read the following statements:
 - i. Traditional methods of irrigation use manpower or animal power.
 - Modern methods of irrigation are based on economic use of water.

[2]

- a) Statement ii) is correct and i) is wrong
- b) Statement i) is correct and ii) is wrong
- c) Both are wrong
- d) Both are correct

Section - D: Social Studies

- 101) Who helped Babur against Lodhis? [2]
 - a) Rana Sanga
- b) Bairam Khan
- c) Mirza Khan
- d) Shah Shiya
- 102) Which Phrase from the following defined the relationship between the king and his subjects? [2]
 - a) Circle of Loyalty
 - b) Circle of Confidence
 - c) Circle of Administration
 - d) Circle of Justice
- 103) From the image given, name this great lawyer who was also known as Deshabandhu. He was also a leader of the Swaraj Party in Bengal against British rule.



[2]

- a) Bipin Chandra Pal
- b) Chittaranjan Das
- c) Motilal Nehru
- d) Dadabhai Naoroji
- 104) Which one from the following options refers to the term Firangis? [2]
 - a) Residents of India
- b) Foreigners
- c) Landlords
- d) Money lenders
- 105) Name the important personality who renounced his knight-hood expressing pain and anger of the country over the Jalianwallah massacre. [2]
 - a) Motilal Nehru
- b) Mahatma gandhi
- c) Sarojini Naidu
- d) Rabindranath Tagore
- 106) This year was a landmark in the Indian freedom struggle in many ways. It was this year the British Government passed the Rowlatt Act. Which year is it? [2]
 - a) 1925

b) 1929

c) 1930

- d) 1919
- 107) Match the following:

(a) monotheism	(i) submission to
	one God
(b) Vishishtadvaita	(ii) qualified
	oneness in that the
	soul, even when
	united with the
	Supreme God
	remained distinct
(c) Advaita	(iii) the doctrine of
	the oneness of the
	individual soul and
	the Supreme God
	which is the
	Ultimate Reality

[2]

a) (a) - (iii), (b) - (ii), (c) - (i

b) (a) - (i), (b) - (ii), (c) - (iii)

c) (a) - (i), (b) - (iii), (c) - (ii)

d) (a) - (ii), (b) - (iii), (c) - (i)

108) The Chinese traveller Xuan Zang came in which century?[2]

a) 15th

b) 18th

c) 7th

d) 16th

109) Identify the best example to conserve resources from the given list. [2]

- a) We should use resources lavishly
- b) We should focus on the indiscriminate use of resources
- c) We should maximize the depletion of resources
- d) We should focus on Optimal use of resources
- 110) The river Yangtze flows in: [2]
 - a) Japan

- b) Australia
- c) South America
- d) China
- 111) Water can neither be added nor subtracted from the earth. It volume remains constant abundance may seem to vary because it is in constant motion, cycling through the oceans, the air, land, and back again, through the processes of evaporation, precipitation, and run off. What is this entire process called? [2]
 - a) Water Movement
- b) Water Progression
- c) Water Cycle
- d) Water Sequence
- 112) Which one of the following cannot be listed under Fossil Fuels? [2]
 - a) Petroleum
- b) Fire wood
- c) Natural gas
- d) Coal
- 113) _____ forests do not shed their leaves simultaneously in any season of the year. [2]
 - a) Evergreen
- b) Temperate
- c) Tropical
- d) Deciduous
- 114) Match the following:

(a) Glaciers	(i) A Crescent - shaped lake formed by the river meanders
(b) Sand dune	(ii) Moving mass of ice
(c) Oxbow lake	(iii) Small hills of sand

[2]

- a) (a) (i), (b) (iii), (c) (ii)
- b) (a) (ii), (b) (iii), (c) (i)
- c) (a) (i), (b) (ii), (c) (iii)
- d) (a) (ii), (b) (i), (c) (iii)
- 115) An industrial system related to the Bakery industry is given below. Which of the following options gives the right data? [2]
 - a) INPUT: Baking

PROCESSING: Bread

OUTPUT: Wheat flour, Power, Ghee, Oil

b) INPUT: Bread

PROCESSING: Wheat flour, Power, Ghee, Oil

OUTPUT: Baking

c) INPUT: Wheat flour, Power, Ghee, Oil

PROCESSING: Bread OUTPUT: Baking

d) INPUT: Wheat flour, Power, Ghee, Oil

PROCESSING: Baking OUTPUT: Bread

- 116) In the light of various factors that influence industrial location, some industries have a tendency to grow close to each other. Name such areas. [2]
 - a) Industrial Systems
 - b) Industrial Regions
 - c) Industrial Organisms
 - d) Industrial Structures
- 117) The means of mass communication shown in figure is



[2]

- a) Television
- b) E mail
- c) Radio
- d) Cell phone
- 118) SMS is a popular means of communication, which is generally sent by using [2]
 - a) Computer
- b) Mobile phone
- c) Land line phone
- d) Compact disc
- 119) What is the name of Scared book of Muslim? [2]
 - a) Nimaz
- b) Quran
- c) All of these
- d) Ved
- 120) The earlier practice of untouchability is now banned by: [2]
 - a) Judge
- b) Police

c) Laws

- d) Politics
- 121) At what level does a Panchayat Samiti operates a Panchayat Raj structure [2]
 - a) Gram Sabha
- b) District Level
- c) Village Level
- d) Block level

122)		veen citizens and the gov- vernments and between the are referred to as: [2] b) Enforcing law
123)	The arrest memo should be co	ounter - signed by the: [2]
	a) Defence lawyerb) Person arrestedc) Judged) Relatives of the person a	rrested
124)	The arrangement between the	merchant and the weavers
ŕ	is an example of which systema) Putting - outc) Putting - on	
125)	What refers to buying and sell	
	a) Mallc) Retail	b) Weekly marketd) Wholesale
	Section - E:	Intelligence
126)	If ZORPIA is to AZIOPR , then	TROUPE is to [2]
120)	a) EUROPE	b) REPORT
	c) ETPRUO	d) PETROL
127)	In the given question, select the given series. 9, 10, 13, 22, 49, ? [2]	
	a) 130 c) 126	b) 115 d) 117
128)	Find the missing number, if either row - wise or column 5 6 8 6 9 10 121 ? 324 [2] a) 216 c) 225	
129)	Find the missing number, if the all the three figures. 4 7 3 8 5 8	ne same rule is followed in
	a) 54	b) 70
	c) 64	d) 52
130)	Find the missing (?) in the se	
	13, 14, 18, 27, ?, 68, 104,	
	a) 36 c) 41	b) 54 d) 43
131)	Choose the word which is dif	,
131)	Coal, Petroleum, Natural gas,	
	a) Biogas	b) Natural gas
	c) Coal	d) Petroleum

Pelvis Skull a) b) Fibula d) Appendix c) 134) What time will it be after six hours and twenty minutes have passed?



[2] 6:10 a)

c)

5:10

b) 6:00 5:00

d)

135) From his house, Lokesh went 15 km to the North. Then he turned west and covered 10 km. Then he turned south and covered 5 km. Finally turning to the east, he covered 10 km. In which direction is he from his house? [2]

a) East

b) North

c) West

d) South

136) Riya walks 15 m towards West. She turned left and walks 20 m. She then turned left and walked 15 m. After this she turned to her right and walks 12 m. How far and in which direction is she now from the starting point? [2]

a) 47 m, East

b) 42 m, South

c) 42 m, North

d) 32 m, South

137) In a certain code language, if 'MUMBAI' is written as 'NWPFFO', then in the same language, 'CARPET' will be written as _. [2]

a) DDUTJZ

b) DCUTJZ

c) DCUTJY

d) DCTTJY

138) Code the word BEAUTIFUL

L	etA	r B	C	D	E	F	G	Н	Ι	J	K	L	N	ΙN	О	P	Q	R	S	-
q	ode	=	×	%	&		*	\$	#	@	!	{]	<	/	;	,	}		>

[2]

=&+ >#-{ a)

%&([#]@!+ c)

d) =&× :?#-{

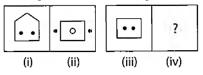
139) If 10 means 20, 20 means 30, 30 means 40 and 40 means 50, then which is multiple of 6? [2]

a) 30

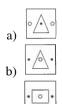
b) 40

c) 10 d) 20

140) There is a certain relationship between figures (i) and (ii). Establish the same relationship between figures (iii) and (iv) by selecting a suitable figure from the options which will replace the (?) in fig. (iv).



[2]



133) Choose the word which is different from the rest. Skull, Appendix, Pelvis, Fibula [2]

132) Select the one which is different from other three re-

b) VALT

d) TORE

sponses. [2] a) PIRE

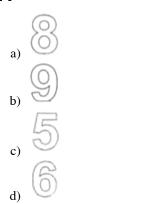
c) AIUE



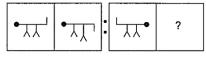
141) There is a certain relationship between the pair of figures on the either side of ::. Identify the relation between the given pair and find the missing figure.



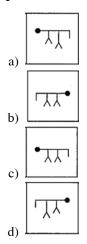
[2]



142) Select the figure that shows the similar relationship.



[2]



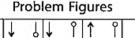
143) Choose the odd one out.

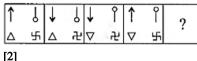


[2]

- Figure (C)
- b) Figure (A)
- c) Figure (D)
- d) Figure (B)

144) Which of the following options will continue the same series as established by the Problem Figures?

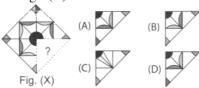








145) Which of the following figures will complete the pattern in Fig. (X)?



[2]

- Figure (B) a)
- b) Figure (A)
- c) Figure (C)
- d) Figure (D)
- 146) Identify the figure that completes the pattern.



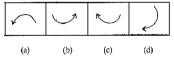
[2]

1

b) 2

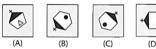
3 c)

- d) 4
- 147) Select the figure which is different from others.



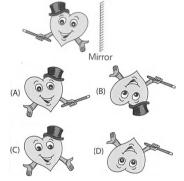
[2]

- Figure (b)
- Figure (c)
- Figure (d) c)
- Figure (a)
- 148) Choose the odd one out.



[2]

- Figure (C)
- Figure (D)
- Figure (A)
- d) Figure (B)
- 149) Select the correct mirror image, if mirror is placed to the right of the given word/number.
 - 2 4 7 5 9 6 [2]
 - 247596 (a
 - 247569 (d
 - 692745 (a
 - d) 6 9 5 7 4 2
- 150) Select the correct mirror image of the given figure.



[2]

- Figure (A) a)
- Figure (B) b)
- Figure (C)
- Figure (D)