



Phase – I

Question Paper

Class - VIII

M.M:60

Time:60 Minutes

**ENGLISH (15 Marks)**

Q1 Choose the option that best expresses the meaning of the highlighted idiom/phrase:

Anil : How did the election go?

Sunil: Very exciting till the last minute. Our candidate proved to be a dark horse.

- a) The candidate was not popular but won.
- b) His candidate lost the election, though he was expected to win.
- c) The candidate backed out at the last minute.
- d) The candidate was popular and won.

Q2. Choose the appropriate idiom to fill in the blank:

Despite the slump in crimes, the Superintendent has been \_\_\_\_\_.

- a) at the wrong foot of the sergeant
- b) running the sergeant off her feet
- c) landing the sergeant in her feet
- d) rushed the sergeant into her feet

Q3. Choose the option that correctly changes the voice of the given sentence:

The officer asked me my name and he jotted it down.

- a) I was asked my name by the officer and it was jotted down by him.
- b) I asked my name by the officer and jotted it down by him.
- c) My name was being asked and had been jotted down by the officer.
- d) My name was asked by the officer and he jotted it down.

Q4. Frame the sentence with the comparative form:

The apples are ripe. The guavas are not very ripe. (ripe)

- a) The apples are more riper than guavas.
- b) The apples are riper than guavas.
- c) The apples are the most riper than guavas
- d) None of these

Q5. Select the correct Indirect Speech of the given sentence:

She said, "Thank You!"

- a) She thanked me.
- b) She said thank you to me.
- c) She said to me thank you.
- d) None of these

Q6. Fill in the blank with the appropriate form of the verb given in the bracket:

The teacher along with the Principal \_\_\_\_\_ discussing the board result. (be)

- a) are
- b) is
- c) was
- d) were

Q7. Choose the appropriate prepositions for the given sentence:

He packed for the trip and was ready \_\_\_\_\_ his bag \_\_\_\_\_ the morning.

- a) in, on
- b) for, from
- c) to, behind
- d) with, in

Q8. Choose the appropriate modal for the given sentence:

You \_\_\_\_\_ go jogging every morning to improve your stamina.

- a) should
- b) could
- c) must
- d) ought to

Q9. Choose the best alternative for the given sentence:

If I had the money, I would have bought the house.

- a) If I have the money, I would have bought the house.
- b) If I have had the money, I would have bought the house.
- c) If I had had the money, I would have bought the house.
- d) No improvement.

Q10. Fill in the blank with the most suitable option:

The teacher was proficient in his subject.

- a) expert
- b) well-versed
- c) efficient
- d) No improvement

Q11. Choose the correct sentence:

- a) It is I who has written this letter.
- b) I know many men.
- c) Everybody should protect himself from cold weather.
- d) Fish and chips are my favourite dish for lunch.

Q12. Identify the Tense used in the given sentence:

The former President arrived.

- a) Present Perfect Tense
- b) Past Perfect Tense
- c) Past Indefinite Tense
- d) None of these

Q13. Choose the appropriate option to fill in the blank:

I am too tired to keep looking at these numbers, so let's \_\_\_\_\_.

- a) call it a night
- b) holding pattern
- c) hold of
- d) hold all

Q14. Choose the correct alternative:

It has surely rained \_\_\_\_\_ last night, there are drops imprinted on the window panes.

- a) little
- b) few
- c) a little
- d) most

Q15. Fill in the Preposition to complete the sentence:

I can count \_\_\_\_\_ my friends to help me overcome difficulties in life.

- a) with
- b) on
- c) between
- d) over

## MATHEMATICS (15 Marks)

- Q16. A number is increased by 20% and then decreased by 20%. Then the number :
- a) does not change
  - b) is increased by 4%
  - c) is decreased by 4%
  - d) None of these
- Q17. In a regular polygon, each interior angle is thrice the exterior angle. The number of sides of the polygon is :
- a) 6
  - b) 8
  - c) 10
  - d) 9
- Q18. If a Polyhedron has 16 faces and 14 vertices, then the number of edges in a Polyhedron are:
- a) 38
  - b) 30
  - c) 28
  - d) 7
- Q19. Peter earns 40% more money than Albert. Albert earned 20% less than Michael. Peter earned more than Michael by :
- a) 12%
  - b) 10%
  - c) 20%
  - d) 25%
- Q20. If an angle of parallelogram is two third of its adjacent angle. Find the smaller angle of the parallelogram.
- a)  $108^{\circ}$
  - b)  $72^{\circ}$
  - c)  $56^{\circ}$
  - d)  $90^{\circ}$
- Q21. Two numbers are such that the ratio between them is 3:5. If each is increased by 10 then ratio between the new numbers so formed is 5:7. Find the original numbers.
- a) 10, 15
  - b) 15, 25
  - c) 8, 16
  - d) 10, 40

Q22. Factorize  $4x^4 + 1$ :

- a)  $(2x^2 + 2x + 1)(2x^2 - 2x + 1)$
- b)  $(2x^2 - 2x - 1)(2x^2 - 2x + 1)$
- c)  $(2x^2 - 2x + 1)(2x^2 - 2x + 1)$
- d)  $(2x^2 + 2x + 1)(2x^2 + 2x - 1)$

Q23. Find the value of  $\sqrt{7 + 2\sqrt{10}}$  :

- a)  $\sqrt{10} + 1$
- b)  $\sqrt{4} + \sqrt{3}$
- c)  $\sqrt{5} + \sqrt{2}$
- d)  $2 + \sqrt{5}$

Q24. If  $3x + 5y = 11$  and  $xy = 2$ , then find the value of  $9x^2 + 25y^2$

- a) 160
- b) 81
- c) 61
- d) 90

Q25. If  $5^{3x-1} \div 25 = 125$ , then find the value of  $x$ .

- a) 3
- b) 4
- c) 1
- d) 2

Q26. If the cost price of 18 chairs is equal to the selling price of 16 chairs. Find the gain or loss percent.

- a) 30
- b) 10
- c) 12.5
- d) 9

Q27. If 12 boys earn Rs 840 in 7 days. What will 15 boys earn in 6 days?

- a) Rs 900
- b) Rs 600
- c) Rs 1000
- d) Rs 500

- Q28. A solid cylinder has total surface area of 462 sq cm. Its curved surface area is one third of its total surface area. Find the volume of the cylinder.
- a)  $500 \text{ cm}^3$
  - b)  $529 \text{ cm}^3$
  - c)  $539 \text{ cm}^3$
  - d)  $569 \text{ cm}^3$
- Q29. If one number is 80% of the other and 4 times the sum of their squares is 656, then the numbers are:
- a) 4, 5
  - b) 8, 10
  - c) 16, 20
  - d) None of these
- Q30. By selling an article at  $\frac{2}{5}$  of the marked price, there is a loss of 25%. The ratio of the marked price and the cost price of the article is:
- a) 2 : 5
  - b) 5 : 2
  - c) 8 : 15
  - d) 15 : 8

### **PHYSICS (05 Marks)**

- Q31. How many cells are there in a Braille character?
- a) 12
  - b) 9
  - c) 3
  - d) 6
- Q32. A block of mass of 2 kg has dimension of  $5 \text{ cm} \times 20 \text{ cm} \times 10 \text{ cm}$  respectively. The ratio of minimum to maximum pressure it exerts on the change in orientation is \_\_\_\_\_.
- a) 1:1
  - b) 1:2
  - c) 1:4
  - d) 4:1
- Q33. When one object moves over the surface of the other object then the:
- a) surface of both the object exerts force on each other in the same direction.
  - b) surface of upper object exerts force of friction on the lower object.
  - c) surface of lower object exerts force of friction on the upper object.
  - d) surface of both the objects exert force in a direction opposite to each other.

Q34. A list of medium is given below:

- (i) wood                      (ii) water                      (iii) air                      (iv) vacuum

In which of these mediums, can sound travel:

- a) (i) & (ii)  
b) (i), (ii) & (iii)  
c) (iii), (iv)  
d) (ii), (iii) & (iv)
- Q35. According to the law of electrostatics \_\_\_\_\_.
- a) a charged body attracts similar charged bodies but repels uncharged bodies.  
b) a charged body attracts bodies carrying similar charge and repels bodies possessing opposite charge.  
c) a charged body repels bodies possessing similar charge and attracts bodies with opposite charge.  
d) a charged body attracts all types of charged bodies.

### **CHEMISTRY (05 Marks)**

Q36. What is used in making of thermocol?

- a) Polypropylene  
b) Polyethylene  
c) Polystyrene  
d) High density polyethylene

Q37. Sulphur dioxide (SO<sub>2</sub>) is \_\_\_\_\_.

- a) Acidic Oxide  
b) Basic Oxide  
c) Neutral Oxide  
d) None of these

Q38. What is the underlying principle based on which fractional distillation is carried out?

- a) Different densities of each fraction  
b) Different boiling points of each fraction  
c) Different molecular weights of each fraction  
d) Different melting points of each fraction

Q39. What does the blue zone in an L.P.G. flame indicate?

- a) Unburnt vapours  
b) Partial decomposition  
c) Moderately hot  
d) Hottest zone of complete combustion

- Q40. What is likely to be formed at the cathode when electricity is passed through calcium nitrate solution in water and why?
- a) Calcium because is a very reactive than hydrogen
  - b) Hydrogen because it is a very reactive than calcium
  - c) Hydrogen because it is less reactive than calcium
  - d) Calcium because it is less reactive than hydrogen

### **BIOLOGY (05 Marks)**

- Q41. Which one is involved in nourishing spermatozoans?
- a) Leydig Cells
  - b) Gubernaculum
  - c) Sertoli Cells
  - d) Interstitial Cells
- Q42. An actively growing cell is supplied with radioactive amino acids. Which cell components would first show an increase in radioactivity?
- a) Golgi body
  - b) Mitochondrion
  - c) Nucleus
  - d) Rough endoplasmic reticulum
- Q43. Fungal cell wall is composed of \_\_\_\_\_.
- a) chitin
  - b) hemicellulose
  - c) cellulose
  - d) None of these
- Q44. What would be the height of a girl at the end of the growth period if she is 15 years old and 150 cm tall?
- a) 154.79 cm
  - b) 66 cm
  - c) 151.51 cm
  - d) 66.57 cm
- Q45. Which one of the following is related to inheritance of characters from one generation to another?
- a) Cell membrane and cytoplasm
  - b) Nucleolus and mitochondria
  - c) Chloroplast and cell membrane
  - d) Chromosomes and genes



## REASONING (15 Marks)

- Q46. Pointing to Kajal, Arvind says, "She is the only daughter of my wife's father." How is Kajal related to Arvind?
- a) Daughter
  - b) Niece
  - c) Wife
  - d) Daughter-in-Law
- Q47. Complete the series AK, EO, IS, ?, QA, UE:
- a) HY
  - b) MW
  - c) AE
  - d) YZ
- Q48. Choose the correct alternative:  
CTPN : DSQM :: MUSK : ?
- a) NVTL
  - b) NTTJ
  - c) NTTL
  - d) LTRJ
- Q49. Dev, Kumar, Nilesh, Ankur and Pintu are standing facing to the North in a playground such as given below:
- (i) Kumar is at 40m to the right of Ankur.
  - (ii) Dev is 60m in the south of Kumar.
  - (iii) Nilesh is at a distance of 25m in the west of Ankur.
  - (iv) Pintu is at a distance of 90m in the North of Dev.
- Which one is in the North-East of the person, who is to the left of Kumar?
- a) Pintu
  - b) Ankur
  - c) Dev
  - d) Nilesh
- Q50. Choose the odd one out :
- a) Baking
  - b) Steaming
  - c) Cooking
  - d) Frying

Q51. Statement: All the phones are scales. All the scales are calculators.

Conclusion: (i) All the calculators are scales.

(ii) All the phones are calculators.

(iii) All the scales are phones.

(iv) Some calculators are phones.

a) Only (i) and (iv)

b) Only (iii) and (iv)

c) Only (ii) and (iv)

d) Only (i) and (ii)

Q52. If  $\div$  means  $+$ ,  $-$  means  $\div$ ,  $\times$  means  $-$  and  $+$  means  $\times$ , then  $\frac{(32 \times 8) - 8 \times 2}{4 + 18 \times 8 + 9 \div 1} = ?$

a) 0

b) 1

c) 12

d) 13

Q53. In a certain code, C is coded as O, E as 7, T as 4, I as 9, P as 1, R as 3 and U as 5. How is 1904537 coded in that code?

a) PICTURE

b) PICTURE

c) RICTPUE

d) PCTUREI

Q54. Six persons P, Q, R, S, T and U are sitting in a circle facing one another front to front. P is sitting in front of Q, Q is sitting to the immediate right of T and immediate left of R, P is to the left of U and right of S.

Who is sitting opposite to R?

a) P

b) Q

c) S

d) U

Q55. Insert the missing number:

5	2	8	6	7
14	5	23	17	?

a) 18

b) 20

c) 22

d) 28

Q56. It was Sunday on January 1, 2006. What was the day of the week January 1, 2010?

- a) Sunday
- b) Saturday
- c) Friday
- d) Wednesday

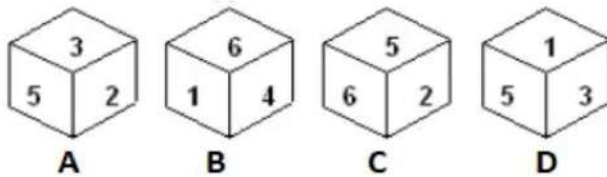
Q57. At what angle are the hands of a clock inclined at 15 minutes past 5?

- a)  $72.5^{\circ}$
- b)  $67.5^{\circ}$
- c)  $58.5^{\circ}$
- d)  $44.5^{\circ}$

Q58. Ankur is 14<sup>th</sup> from the right end in a row of 50 boys. What is the position from the left end?

- a) 34<sup>th</sup>
- b) 35<sup>th</sup>
- c) 36<sup>th</sup>
- d) 37<sup>th</sup>

Q59. What number is opposite to 5?



- a) 1
- b) 2
- c) 3
- d) 4

Q60. Which of the following diagrams indicate the best relation between football, player and field?

- a)
- b)
- c)
- d)