

SAMPLE PAPER

Class : VII

Time allowed : 2 hours

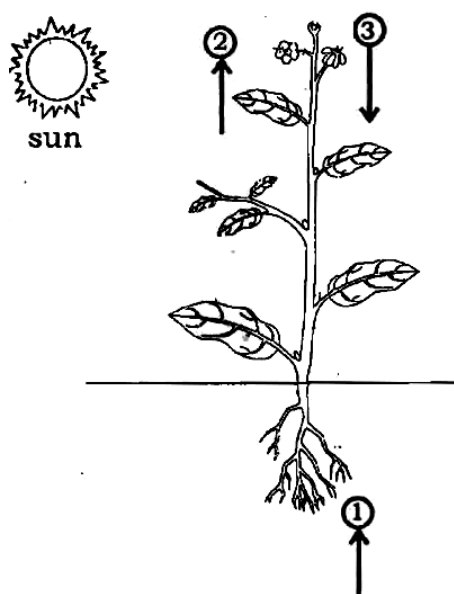
Maximum Marks : 240

GENERAL INSTRUCTIONS

1. The question paper consists of '60' objective type questions. Each question carry **4 marks** and all of them are compulsory.
 2. Each question contains four alternatives out of which only **ONE** is correct.
 3. There is **NEGATIVE** marking. **1 mark** will be deducted for each wrong answer.
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- Q.1 An iron ball at 40°C is dropped in a mug containing water at 40°C . The heat will
(A) Flow from iron ball to water
(B) Not flow from iron ball to water or from water to iron ball
(C) Flow from water to iron ball
(D) Increase the temperature of both
- Q.2 The temperature equivalent to -40°C on Fahrenheit scale will be:
(A) -40°F (B) 32°F (C) -32°F (D) 40°F
- Q.3 Which of the following is true in case of mode of transmission of heat?
(A) Convection is possible only in case of liquids and gases
(B) Radiation is the fastest mode of heat transfer
(C) Conduction is possible only in case of solids
(D) All of above
- Q.4 An unbalanced force acts on a body. The body
(A) Must remain in same state (B) Must move with uniform velocity
(C) Must be accelerated (D) Must move along a circle
- Q.5 Balanced force may _____ a body
(A) Move (B) Accelerated (C) Retard (D) Deform
- Q.6 9.8 N is equal to
(A) 1 kgf (B) 1 kg wt (C) both (A) and (B) (D) neither (A) nor (B)
- Q.7 A cannon after firing recoils due to
(A) Conservation of energy (B) Newton's third law of motion
(C) Newton's First law of motion (D) None of these

- Q.8 The ratio of distances travelled by a uniformly accelerated body in first, second and third second is
 (i) 1 : 3 : 9
 (ii) an integral multiple of odd number ratio less than 7
 (iii) an integral multiple of odd natural numbers
 (iv) 1 : 4 : 9
 (A) (i) and (ii) only (B) (ii) and (iii) only (C) (i) and (iii) only (D) (i), (ii) and (iii)
- Q.9 Salt from sea water is separated from
 (A) Crystallisation (B) Filtration (C) Decantation (D) Evaporation
- Q.10 Select the odd one out
 (A) Oxygen gas (B) Nitrogen gas (C) Chlorine gas (D) Carbon dioxide gas
- Q.11 Filtration as a method of separation can be used for mixtures that are :
 (A) homogeneous and liquid-in-gas mixtures (B) heterogeneous and liquid-in-liquid mixtures
 (C) homogeneous and solid-in-liquid mixtures. (D) heterogeneous and solid-in-liquid mixtures
- Q.12 Llama and Alpaca are found in
 (A) South America (B) Africa (C) Asia (D) Egypt
- Q.13 Which of the following changes is NOT a chemical change ?
 (A) Boiling of water (B) Boiling of egg (C) Burning of paper (D) Burning of cloth
- Q.14 When an acid is slowly added to water
 (A) it releases heat (B) it absorbs heat
 (C) there is no heat change (D) none of these
- Q.15 Which disease may be caused to a person involved in a silk industry ?
 (A) Blood sifter disease (B) Malaria
 (C) Dengu (D) Asthama and Tuberculosis
- Q.16 Which of the following mixtures will be the most difficult to separate ?
 (A) iron filings + sand (B) Sand + water (C) Saw dust + stones (D) Nitrogen + hydrogen
- Q.17 After studying photosynthesis, Neelima drew the illustration of a plant shown below



Arrow – 1 represents

- (A) release of water and minerals by the plant into soil
- (B) release of carbon dioxide in to the soil
- (C) absorption of water and minerals by the roots from the soil
- (D) release of oxygen into the atmosphere

Q.18 Match the following

- | | |
|--------------|-----------------------------|
| 1. Incisors | a. Grinding teeth |
| 2. Canines | b. Cracking teeth |
| 3. Premolars | c. Biting and cutting teeth |
| 4. Molars | d. Tearing teeth |

- (A) 1 – b, 2 – d, 3 – a, 4 – c
- (B) 1 – b, 2 – a, 3 – d, 4 – c
- (C) 1 – c, 2 – b, 3 – d, 4 – a
- (D) 1 – c, 2 – d, 3 – b, 4 – a

Q.19 Which of the following statements is false ?

- (A) Some desert plants do not have leaves.
- (B) Thick skin protects animals from the blazing heat of sun
- (C) In cold regions, plants grow new leaves during winter
- (D) Bears have thick fur for protection against the cold

Q.20 Plants give out water through the pores present under their leaves. The plants living in deserts need to reduce the loss of water because water is very scarce in deserts. Which of the following is an adaptation developed by the desert plants to manage the above situation ?

- (A) They have lots of branches and leaves
- (B) They do not shed leaves in the summer
- (C) They develop roots which come above the ground
- (D) Their leaves are modified into spines

Q.21 Which of the following crop yields more if it is grown in clay and organic matter and having a good capacity to retain water ?

- (A) Wheat (B) Gram (C) Paddy (D) Cotton

Q.22 Match the following with the correct answers.

- | | |
|--------------|----------------------------|
| (a) Scouring | (i) Yields silk fibres |
| (b) Mulberry | (ii) Cleaning sheared skin |
| (c) Sheep | (iii) Food of silk worm |
| (d) Cocoon | (iv) Wool yielding animal. |
- (A) a - ii, b - iii, c - iv, d - i (B) a - i, b - ii, c - iii, d - iv
(C) a - iv, b - iii, c - ii, d - i (D) a - iii, b - i, c - ii, d - iv

Q.23 Gaseous exchange in plants take place through _____ and _____ .

- (A) stomata, lenticels (B) guard cells, grana (C) stroma, grana (D) none of the above

Q.24 Arteries are the

- (A) blood vessels which carry only oxygenated blood
- (B) blood vessels which carry only deoxygenated blood
- (C) blood vessels which carry blood from the heart to different organs of the body
- (D) blood vessels which carry blood from different organs of the body to the heart

Q.25 In many plants, though stamens and ovules are produced by the same flower self-pollination does not occur because
 (A) stamen is not compatible with the pistil
 (B) the DNA of pollen grain and the ovule belongs to different species
 (C) anthers and ovules mature at different times
 (D) stigma does not hold the gametes belonging to the same flower

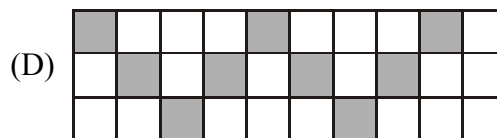
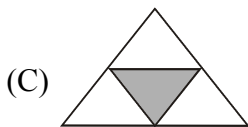
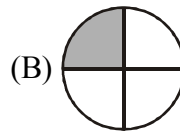
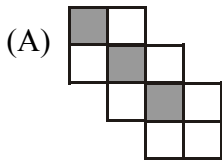
Q.26 Which of the following bacteria causes sorter's disease in sorters ?
 (A) Rhizobium (B) Clostridium (C) Anthrax (D) Coliform

Q.27 One integer is greater than the other by +4. If one number is -16, then the other
 (A) +12 (B) 0 (C) -1 (D) -12

Q.28 $100 - 4 [25 - \{5 + 12 - 9\}]$
 (A) -32 (B) +132 (C) +32 (D) -132

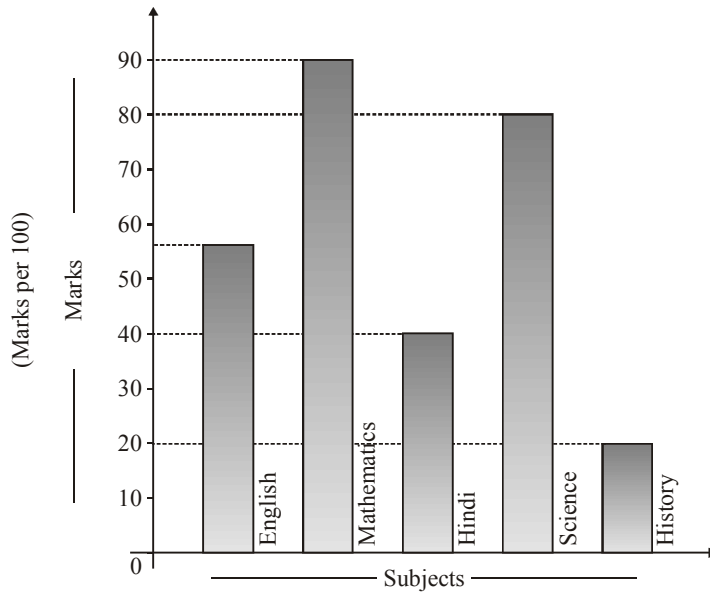
Q.29 Expanded form of 78.059 is
 (A) $78 + \frac{5}{10} + \frac{9}{100}$ (B) $70 + 8 + 0 + \frac{5}{100} + \frac{9}{1000}$
 (C) $70 + 8 + \frac{5}{10} + \frac{9}{100}$ (D) None

Q.30 In which figure does the shaded part represents 0.3?

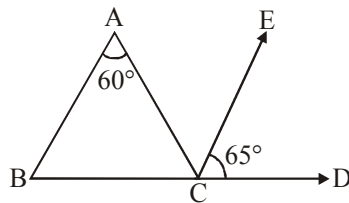


Q.31 The average weight of sample of 10 apples is 52 g. Later it was found that the weighing machine had shown the weight of each apple 10 g less. The correct average weight of an apple is
 (A) 62 g (B) 54 g (C) 56 g (D) 52 g

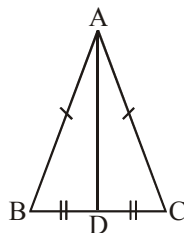
Direction (Q.32 & Q.33) : Read the following graph and answer the questions given below :



- Q.32 What is the percentage obtained by the student?
 (A) 80% (B) 63% (C) 57% (D) 90%
- Q.33 What is the ratio of the highest marks to the lowest marks obtained by the student?
 (A) 2 : 11 (B) 9 : 2 (C) 2 : 9 (D) 11 : 2
- Q.34 The average of three numbers is 60. The first is $\frac{1}{4}$ th of the sum of the other two. The first number is
 (A) 24 (B) 36 (C) 48 (D) 72
- Q.35 In the adjoining figure, it is given that $\angle A = 60^\circ$, $CE \parallel BA$ and $\angle ECD = 65^\circ$, then $\angle ACB =$ _____

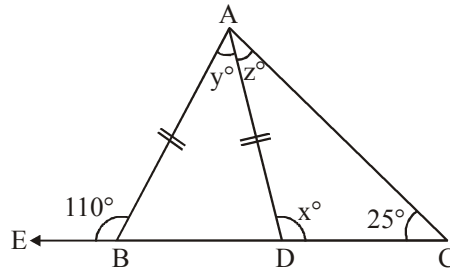


- (A) 60° (B) 55° (C) 70° (D) 90°
- Q.36 If the angles of a triangle are in the ratio 1 : 2 : 7, then the triangle is
 (A) acute angled (B) obtuse angled (C) right angled (D) right angled isosceles
- Q.37 In an equilateral triangle, centroid (G), circumcentre (S), orthocentre (H) and incentre (I)
 (A) coincide with each other (B) do not coincide with each other
 (C) are collinear points (D) None of these
- Q.38 In the following figure if $AB = AC$ and $BD = DC$, then $\angle ADC =$



- (A) 60° (B) 120° (C) 90° (D) None

Q.39 In the figure given below, find $\angle Z$



- (A) 40° (B) 110° (C) 45° (D) None

Q.40 Are these numbers 3 : 27, 9 : 9 in proportion?

- (A) No (B) Yes (C) Sometimes (D) None

Q.41 In the word MATHEMATICS the ratio of number of consonants to the number of vowels

- (A) 4 : 7 (B) 7 : 4 (C) 5 : 6 (D) 6 : 5

Q.42 By selling 100 mangoes, a fruit seller gains SP of 20 mangoes. Find the gain %.

- (A) 20% (B) 25% (C) 35% (D) 50%

Direction (Q.43 & Q.44) : In each of the following questions the numbers are arranged in a particular order. Choose the missing number from the given alternatives and write its serial number on your answer sheet.

Q.43 21, 25, 33, 49, 81, ?

- (A) 97 (B) 113 (C) 139 (D) 145

Q.44 53, 52, 48, ?, 23, - 2

- (A) 36 (B) 39 (C) 42 (D) 44

Direction (Q.45) : In the following letter series, some of the letters are missing which are given in that order as one of the alternatives below it. Choose the correct alternative.

Q.45 aa _ aaa _ aaaa _ aaaa _ b

- (A) baaa (B) bbaa (C) bbbb (D) bbba

Direction (Q.46) : In the following question, four words have been given out of which three are alike in some manner, while the fourth one is different. Choose out the odd one.

Q.46 (A) Litchi (B) Papaya (C) Watermelon (D) Jackfruit

Q.47 If in a certain code, SWITCH is written as TVJSDG, which word would be written as CQFZE ?

- (A) BARED (B) BRAED (C) BREAD (D) BRADE

Direction (Q.48): Each of the following question consists of five Problems marked 1, 2, 3, 4 and 5. Select a figure from amongst the Answer Figure which will continue the same series as established by the five Problem Figures.

Q.48 Problem Figures Answer Figure

	(1)	(2)	(3)	(4)	(5)	(A)	(B)	(C)	(D)

Direction (Q.49): In the following question, statement/group of statements is given followed by some conclusions. Without resolving anything yourself, choose the conclusion which logically follows from the given statement(s).

Q.49 **Statement :** Ability is poor man's wealth.

Conclusions :

- (A) A poor man is always able.
- (B) A poor man has the ability to earn wealth.
- (C) A wealthy man is always able.
- (D) A poor man can earn wealth if he has ability.

Q.50 How many meaningful words can be formed using the first, the third, the fifth and the sixth letters of the word TRADEMARK using each letter only once in each word?

- (A) One (B) Two (C) Three (D) Four

Q.51 How is the son of the woman who is the mother of the wife of my father related to me ?

- (A) Uncle (B) Father (C) Grandfather (D) Son

Q.52 The number of boys in a class is three times the number of girls. Which one of the following numbers cannot represent the total number of children in the class?

- (A) 48 (B) 44 (C) 42 (D) 40

Q.53 If the second day of a month is a Friday, which of the following would be the last day of the next month which has 31 days?

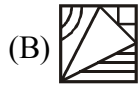
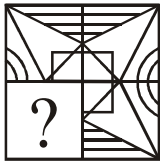
- (A) Sunday (B) Monday (C) Tuesday (D) Data inadequate

Q.54

1	2	3
11	7	5
120	45	?

- (A) 19 (B) 17 (C) 16 (D) 15

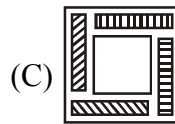
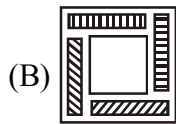
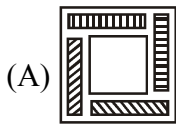
Q.55 In the following question, select a figure from amongst the four alternatives, which when placed in the blank space of figure would complete the pattern.



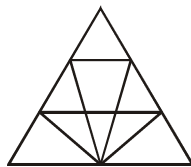
Q.56 In the following question, choose the correct water-image of the fig.(X) from amongst the four alternatives (A), (B), (C) and (D) given along with it.



(X)



Q.57 In the following question, find the number of triangle in the given figure.



(A) 12

(B) 18

(C) 22

(D) 26

Direction (Q.58) : Choose the odd numeral pair/group.

Q.58 (A) 0.50, $1\frac{1}{2}$, 3.00, 0.25

(B) $\frac{1}{2}$, 0.75, $1\frac{1}{2}$, 1.00

(C) 0.5, 0.75, 1.5, 1

(D) 1.00, $1\frac{1}{2}$, 3.00, 2.00

Q.59 TRADE is related to UQBCF in the same way as PLATE is related to?

(A) QKBSF

(B) QKBUF

(C) OMZUD

(D) QMBUF

Direction (Q.60) : In the following questions, one term in the number series is wrong. Find out the wrong term.

Q.60 10, 14, 28, 32, 64, 68, 132

(A) 28

(B) 32

(C) 64

(D) 132