

KENDRIYA VIDYALAYA SANGATHAN DEHRADUN REGION
Term II Examination (Session-2021-22)
Subject: Mathematics
Class- VII
SAMPLE QUESTION PAPER [SET 2]

Max.Marks: 40

Time: 2 hours

General instructions:

1. All questions are compulsory
2. This question paper contains 32 questions divided into 4 sections Sections-A, B, C and D
3. Section –A comprises 20 Multiple Choice questions of 1 mark each,
Section –B comprises 6 questions of 1 mark each,
Section –C comprises 4 questions of 2marks each.
Section –D comprises 2 questions of 3 marks each

SECTION – A

1. What is the volume of cuboid whose length is r, breadth is s and height is t [1]
Rst b) RST c) rst d) none of these
2. What is the Euler’s formula for polyhedron? [1]
a) $F-V-E = 0$ b) $F+V-E = 2$ c) $F+V+E = 1$ d) $F+V+E = 3$
3. The value of 3^{-1} is [1]
a) 1 b) $1/2$ c) $1/3$ d) $1/4$
4. Find the value of $3^0 \times 2$ [1]
a) 1 b) 2 c) 3 d) 4
5. . Find the value of $2^2 \times 2^3$ [1]
a) 6 b) 2 c) 32 d) 9
6. What is the standard form of 0.0000015 [1]
a) 1.5×10^{-6} b) 2×10^{-6} c) 15×10^{-6} d) none of these
7. What is the standard form of 4200000000 [1]
a) 4.2×10^8 b) 4.2×10^9 c) 4.2×10^{10} d) none of these
8. Find the value of A, if $328 + A55 = 883$ [1]
a) 6 b) 2 c) 3 d) 5

- 9 If One's digit of a number is odd number then such number is divisible by [1]
 a) 2 b) 3 c) 5 d) none of these.
- 10 Find the value of A, if $125 \times 2A = 2500$ [1]
 a) 0 b) 2 c) 3 d) 5
- 11 What is the value of $2xyz + 5xy$ [1]
 a) $7xyz$ b) $7xy$ c) $10xyz$ d) can not add
- 12 Find the product of the polynomials $2m^3$, m , m^5 and 0 [1]
 a) $2m^9$ b) $2m^{15}$ c) 0 d) $5m^8$
- 13 Using Euler's formula, find the number of faces if $V = 6$ and $E = 12$ [1]
 a) 6 b) 8 c) 10 d) 5
- 14 Cylindrical figure is of [1]
 a) 3-dimensional b) 2-dimensional c) 3both d) none of these
- 15 A car is moving at a uniform speed of 80 km/hour. How far this car will travel in 30 minutes? [1]
 a) 45 km b) 40 km c) 30 km d) 50 km
- 16 A man can complete a work in 20 days. In how many days this work will be completed by four men [1]
 a) 6 b) 2 c) 4 d) 5
- 17 Find the common factor from terms $12x$, $6xy$ and $24yz$ [1]
 a) $2y$ b) $4xy$ c) 6 d) $12x$
- 18 Write the factors of $x^2 - y^2$ [1]
 a) $(x-y)$ b) $(x + y) (x-y)$ c) $(x - Y)^2$ d) none of these
- 19 A point whose y-coordinate is zero and x-coordinate is 2 then this point will lie on [1]
 a) x- axis b) y-axis c) origin d) none of these
- 20 . Is the number 11342132415 divisible by 9 [1]
 a) no b) yes c) can not find d) none of these

SECTION – B

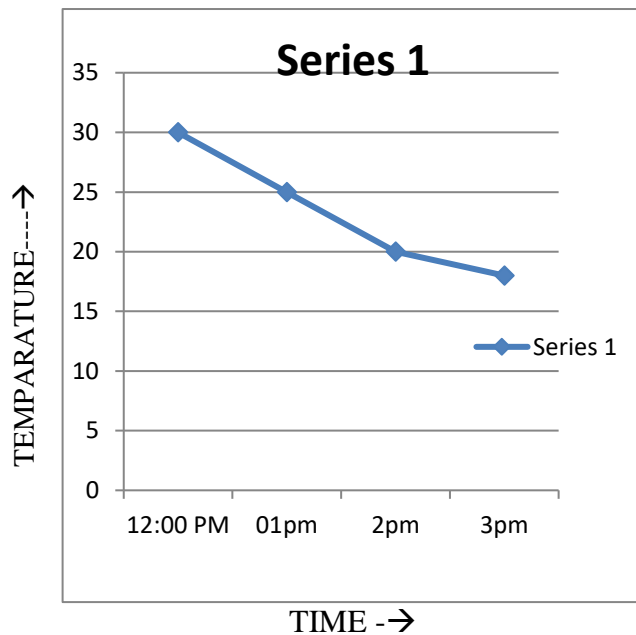
- 21** Simplify: $(m - n)^2 + 2mn$ [1]
- 22 Find the value of m for which $2^m = 16$. [1]
- 23 Four pipes are required to fill a water tank in 4 hours. In how many hours 8 pipes will pletely fill the tank? [1]
- 24 How much water a cubical tank can hold whose dimension is 1 meter. [1]
- 25 Solve: $\frac{35abc}{5c}$ [1]
- 26 Draw a point $(3,5)$ on the graph. [1]

SECTION – C

- 27 Find the side of a cube whose surface area is 600 cm^2 . [2]
- 28** [2]

(a) What is the temperature at 1 pm ?

(b) At what time, temperature was 18°C



- 29** .Subtract: $3a(a+b+c) - 2b(a-b+c)$ from $4c(-a+b+c)$ [2]

- 30 A school has 8 periods in a day each of 45 minutes duration. How long would each period be, if the school has 9 periods a day, assuming the number of school hours to be the same? [2]

SECTION – D

- 31 Factorise the expression: $(x + y)^2 - (x - y)^2$ [3]
- 32 A closed cylindrical tank of radius 7 m and height 3 m is made from a steel metal. [3]
How much sheet of metal is required?