**CPN NPT – 2024**

**CLASS-9TH Maximum Marks: 100**

 **Duration : 45 min.**

**General Instructions**

1. The test if of 45 mins. Duration and the maximum marks is 100.
2. The question paper consists of 3 parts (Part 1: Physics, Part II: Chemistry, part III: Mathematics).
3. Contains 20 multiple choice Questions. Each question has 4 choices (a), (b), (c) and (d), out of which **ONE CHOICE** is correct.
4. No candidate is allowed to carry any textual material, printed or written, bits of papers, pager, mobile phone, any electronic device, etc. inside the examination room/hall.
5. On completion of the test, the candidate must hand over t he Answer sheet to the **Invigilator** on duty in the Room/Hall. **However, the candidates are allowed to take away this Test Booklet with them.**

**Marking Scheme**

1. +5 for correct answer, -1 (negative marking) for incorrect answer, 0 for all other cases.

**Questions:-**

Q.1 When the distance on object travels is directly proportional to the time, it is said to travel with

a) Zero Veolocity b) Constant Speed

c) Zero acceleration d) Uniform velocity

Q.2 A boly of Mass ‘M’ collides against a wall with Velocity ‘V’ and rebounds with the same speed. Its change of Momentum is :

a) Zero b) MV 2) 2 MV 3) –MV

Q.3 The acceleration due to gravity:

a) has the same value everywhere in space b) has the same value every where on the earth

c) varies with the Latitude on the earth d) is greater on the moon due to its smaller diameter.

Q.4 Work done by a centripetal force:

a) Increases by decreasing the Radius of circle.

b) decreases by increasing the Radius of circle.

c) Increases by increasing the Mass of body.

d) is always zero.

Q.5 If the frequency of a wave is 25Hz, the total number of compression and rarefactions passing through a point in 1 second is:

a) 25 b) 50 c) 100 d) None of these

Q.6 A molecule of hydrogen is represented as –

a) H b) 2H c) H2  d) All of these

Q.7 If the volume of a given mass of a gas at constant temperature becomes three times, the pressure will be-

a) 3p b) p/3 c) 9p d) p

Q.8 The boiling point of alcohol is 780C. What will be the temperature in Kelvin scale ?

a) 373K b) 351K c) 375K d) 78K

Q.9 Which of the following is not a chemical change ?

a) Rusting of iron b) Cooking of food c) Freezing of water d) Digestion of food

Q.10 The atoms of which of the following element exist in free state ?

a) Nitrogen b) Helium c) Hydrogen d) Oxygen

Q.11 The value of (64)-3/2 is

a) -1 b) 1 c) 64 d) 1

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Q.12 The factors of 3x2 – 5x + 2 are

a) (3x-2) and (x-1) b) (x+2) and (3x-1)

c) (3x+2) and (x-1) d) (x-2) and (3x+1)

Q.13 The point (-3, -4) lies in which quadrant.

a) I b) II c) III d) IV

Q.14 Find the measure of the angle which is complement of itself.

a) 300 b) 900 c) 450  d) 1800

Q.15 If ABC ≅ PQR then which of the following is true.

a) CA = RP b) AB = RP

c) AC = RC d) CB = QP

Q.16 In a parallelogram. ABCD, if <A = 2x + 150 and <B = 3x-250 then x =

a) 910 b) 890 c) 340  d) 380

Q.17 Area of a trapezium whose parallel sides are 9 cm and 6 cm respectively and the distance between from is 8 cm, is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ cm2.

a) 80 b) 30 c) 120 d) 60

Q.18 The angle subtended by rthe diameter at the center of a circle is –

a) 900 b) 450 c) 1800 d) 600

Q.19 The curved surface area of a right circular cyl9inder of height 14 cm is 88cm2. The diameter of the base is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_cm.

a) 2 cm b) 3cm c) 4cm d) 6 cm

Q.20 One card is drawn from a pack of 52 cards. What is the probability that the card drawn is either a red card or a king ?

a) 6/13 b) 7/13 c) 1/2 d) 27/52