

ARMY PUBLIC SCHOOL KALUCHAK

HOLIDAYS H.W.- XI

SUBJECT- ENGLISH

1. Describe the narrator's experience of an early morning ride with his cousin Mourad.
2. Compare and contrast Uncle Khosrove and Cousin Mourad.
3. Did the boys return the horse because they were conscience-stricken or because they were afraid? Explain.
4. What did John Byro mean when he said, "A suspicious man would believe his eyes instead of his heart"? Explain.
5. The author's grandmother was a religious person. What are the different ways in which we come to know this?
6. Gradually, the author and the grandmother saw less of each other, and their friendship was broken. Was the distancing deliberate or due to the demands of the situation? Explain.
7. The grandmother herself was not formally educated but was serious about the author's education. How does the text support this?
8. Imagine that you are Khushwant Singh. Record the changes that came in your relationship with your grandmother as you grew up from a child to a university student.
9. 'We're Not Afraid to Die ... If We Can All Be Together' traces the saga of hardship and bravery as portrayed in this adventure story. Comment.
10. How did the children's presence and behavior during the crisis affect the narrator?
11. How did the narrator and his companions save the boat from sinking?
12. "Optimism and courage help to tide over difficulties." How did the narrator succeed in searching for the small island?
13. "Its silence silences," writes Shirley Toulson. The loss of her mother has silenced her. Do you think that this attitude of the poet is the right attitude to live life? Why or why not?
14. Happy moments are short-lived but provide a lifetime of memory. They provide a cushion to bear the difficulties which the future has in store for you. Comment in the light of the poem 'A Photograph' by Shirley Toulson.
15. The poet has paid a tribute to her mother. Similar instances can be seen in "The Portrait of a Lady". This makes you think that writing about a loved one is much better than building their statues or drawing their portraits. Comment.
16. 'Both wry with the laboured ease of loss.' and 'The sea appears to have changed less' depict nostalgic feelings. Comment.
17. You are Harish/Harshita of 12, Seva Nagar, Pune. You want to sell your flat as you are shifting to another city for work. Draft a suitable advertisement in not more than 50 words to be published in The Pune Times under the classified columns.
18. The Principal of Sunrise Global School, Agra, requires a receptionist for her school. Draft a suitable advertisement in about 50 words to be published in the classified

columns of a national newspaper, giving all the necessary details of qualifications and experience required for the receptionist.

19. You want to let out a house. Prepare an advertisement to this effect for publication in a newspaper, giving the location of the building, nature of accommodation, rent expected, etc.

20. You have lost your briefcase containing important business documents while traveling on the Shatabdi Express from Chandigarh to New Delhi. Draft an advertisement for the Lost and Found section of the classified advertisements of a national daily. Offer suitable details/rewards. You are Vineet/Vineeta of 1164, Sector 11, Chandigarh.

SUBJECT – PHYSICS

1. The equation of state of some gases can be expressed as Vander wal equation i.e.

$$(P + a/V^2)(V - b) = RT$$

Where P is the pressure, V is the volume, T is the absolute temperature and a, b, R are constants. The dimensions of 'a' are:

(i) $[M^1L^1T^{-1}]$ (ii) $[M^1L^{-5}T^1]$ (iii) $[M^2L^5T^{-1}]$ (iv) $[M^1L^5T^{-2}]$

2. Electron volt is a unit of

(i) Charge (ii) Potential difference (iii) Energy (iv) Magnetic Force

3. There are 20 divisions in 4 cm of the main scale. The vernier scale has 10 divisions.

The

least count of the instrument is

(i) 0.05 cm (ii) 0.5 cm (iii) 5.0 cm (iv) 0.005 cm

4. One watt hour contains how many joules?

(i) $3.6 \times 10^8 J$ (ii) $3.6 \times 10^2 J$ (iii) $3.6 \times 10^3 J$ (iv) $10^{-3} J$

5. A body starts from rest and travels with uniform acceleration of 2 m/s^2 . If its velocity is v

after making a displacement of 9 m, then v is

(i) 8 m/s (ii) 6 m/s (iii) 10 m/s (iv) 4 m/s

6. A boy starts from a point A, travels to a point B at a distance of 1.5 km and returns to A. If

he takes one hour to do so, his average velocity is

(i) 3 km/h (ii) zero (iii) 1.5 km/h (iv) 2 km/h

7. If the displacement-time graph of an object is parallel to the time-axis, then it represents

that the object is :

(i) at rest (ii) in uniform motion (iii) in acceleration motion (iv) none of the above

8. The acceleration of a moving object can be found from

- (i) area under displacement-time graph
- (ii) slope of displacement-time graph
- (iii) area under velocity-time graph
- (iv) slope of velocity-time graph

9. A body starts from rest. If it travels with an acceleration of 2 m/s^2 , its displacement at the

end of 3 seconds is

- (a) 9 m (b) 12 m (c) 16 m (d) 10

10. If the time period of vibration (T) of a liquid drop depends on surface tension (S), radius (r) of

The drop and density of the liquid, then the expression of " T " is ?

11. If the speed of light (c), acceleration due to gravity (g) and pressure (p) are taken as the

fundamental quantities, then the dimension of gravitational constant (G) is ?

12. If velocity (v), acceleration (a) and force (f) are chosen as fundamental quantities, then the

dimensional formula of angular momentum in terms of v , a and f would be?

13. A small steel ball of radius r is allowed to fall under gravity through a column of a viscous

liquid of coefficient of viscosity (η). After some time the velocity of the ball attains a constant

value known as terminal velocity. The terminal velocity depends on (i) the mass of the ball, (ii) η ,

(iii) r , and (iv) acceleration due to gravity. Find relation between them using dimension analysis.

14. If energy of photon E is proportional to $h^a c^b \rho^c$. Here, h = plank's constant, c = speed of

light, λ = wavelength of photon. Then find the values of a , b and c ?

15. The position of an object moving along x -axis is given by $x = a + bt^2$ where $a = 8.5 \text{ m}$, $b = 2.5 \text{ m s}^{-2}$ and t is measured in seconds. What is its velocity at $t = 0 \text{ s}$ and $t = 2.0 \text{ s}$.

What is the average velocity between $t = 2.0 \text{ s}$ and $t = 4.0 \text{ s}$?

16. A ball is thrown vertically upwards with a velocity of 20 ms^{-1} from the top of a multistorey

building. The height of the point from where the ball is thrown is 25.0 m from the ground.

(a) How high will the ball rise ? and (b) how long will it be before the ball hits the ground? Take $g = 10 \text{ m s}^{-2}$

17. A woman starts from her home at 9.00 am, walks with a speed of 5 km h^{-1} on a straight road up to her office 2.5 km away, stays at the office up to 5.00 pm, and returns home by an auto with a speed of 25 km h^{-1} . Choose suitable scales and plot the x-t graph of her motion.

18. A drunkard walking in a narrow lane takes 5 steps forward and 3 steps backward, followed again by 5 steps forward and 3 steps backward, and so on. Each step is 1 m long and requires 1 s. Plot the x-t graph of his motion. Determine graphically and otherwise, how long the drunkard takes to fall in a pit 13 m away from the start.

19. A car moving along a straight highway with speed of 126 km h^{-1} is brought to a stop within a distance of 200 m. What is the retardation of the car (assumed uniform), and how long does it take for the car to stop?

20. CASE BASED QUESTIONS

QUES A: System of units: A system of units is a collection of units in which certain units are

chosen as fundamental and all others are derived from them. This system is also called an

absolute system of units. Some common systems in use are:

- c.g.s system: The unit of length is centimetre, mass is gram, time is second.
- m.k.s system: The unit of length is metre, mass is kilogram, time is second.
- f.p.s system: The unit of length is foot, mass is pound, time is second.
- S.I. system: In 1960, 11th General Conference of Weights and Measures introduced SI

system. It has 7 fundamental units (Unit of length is metre, mass is kilogram, Time is

second, Temperature is Kelvin, Electric current is Ampere, Luminous intensity is

Candela, Amount of substance is mol) and two supplementary units (Unit of plane angle

is radian, solid angle is steradian)

A1 : Which of the following is not the name of physical quantity?

- (a) Kilogram (b) Density (c) Impulse (d) Energy

A2: The weight of a body is 12g. This statement is not correct because

- (a) The correct symbol for the unit of weight has not been used.
(b) The correct symbol for gram is gm.
(c) The weight should be expressed in kg.
(d) Of some reason other than those given above.

A3: If the unit of force and length are doubled, the unit of energy will be

- (a) 1/2 times (b) 2 times (c) 4 times (d) 1/4 times

A4: The density of a liquid is 13.6 g cm⁻³. Its value in S.I. is

- (a) 13.6 kgm⁻³ (b) 136 kgm⁻³ (c) 13600 kgm⁻³ (d) 1360 kgm⁻³

A5: 1Kg-wt in gravitational units equals to

- (a) 5.4 N in SI system (b) 4.5 N in SI system
(c) 9.8 N in SI system (d) 8.9 N in SI system

Ques B: Dimensions: The dimensions of a physical quantity are the powers to which the base

quantities are raised to represent that quantity and expressed by putting square brackets []. The

Dimensional formula tells the fundamental factors on which unit depend. The dimensional equation have 3

important applications:

- (i) To check the correctness of a physical equation.
(ii) To derive the relation between different physical quantities.
(iii) To change from one system of units to another.

Principle of homogeneity of dimensions states that dimensions of fundamental quantities on

both sides of a physical relation must be same.

B1: Give that the displacement of a particle is given by $x = A^2 \sin^2 kt$, where t denotes the

time. The unit of k is

- (a) radian (b) metre (c) hertz (d) second

B2: The dimensional formula for angular momentum is same as that for:

- (a) torque (b) Planck's constant (c) gravitational constant (d) impulse

B3: Checking the correctness of physical equations using the methods of dimensions is based on

- (a) Equality of frame of reference
(b) The type of system of units

- (c) The method of measurement
- (d) Principle of homogeneity of dimensions.

B4: Dimensions cannot be used to

- (a) To check dimensional correctness of a formula.
- (b) Convert units
- (c) Find value of constant of proportionality in an equation.
- (d) Deduce a relation among physical quantities.

B5: Two physical quantities whose dimensions are not same, cannot be:

- (a) Multiplied with each other
- (b) Divided
- (c) Added or subtracted in same expression
- (d) added

Ques C. In the absence of air resistance, all bodies falls with same same acceleration near the surface of the earth. This motion of a body falling towards the earth from a small height is called free fall. The acceleration with which a body falls is called acceleration due to gravity and it is denoted by g.

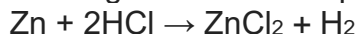
- (i) For a freely falling body, which of the following equation is incorrect.
 - (a) $h - ut = (1/2) gt^2$
 - (b) $v^2 - u^2 = 2gh$
 - (c) $h = (1/2) ut + gt^2$
 - (d) $(v-u)/g = t$
- (ii) The maximum height attained by a body thrown vertically upward with initial velocity u is
 - (a) $h = u^2/2g$
 - (b) $h = u/2g$
 - (c) $h = u^2/g$
 - (d) $h = 2u^2/g$
- (iii) The time of ascent of a body thrown vertically upward with initial velocity u is
 - (a) $t = u/2g$
 - (b) $t = u/g$
 - (c) $t = u^2/g$
 - (d) $t = u/g^2$
- (iv) The total time of flight to come back to the point of projection of a body thrown Vertically upward with initial velocity u is
 - (a) $t = 2u/3g$
 - (b) $t = u/2g$
 - (c) $t = 2u/g$
 - (d) $t = u^2/2g$
- (v) Velocity of fall at the point of projection of a body thrown vertically upward with Initial velocity u is
 - (a) $v = u$
 - (b) $v = 2u$
 - (c) $v = 3u$
 - (d) $v = 4u$

SUBJECT – CHEMISTRY

1. What will be the molarity of a solution, which contains 5.85 g of NaCl(s) per 500 mL?
2. If 500 mL of a 5 M solution is diluted to 1500 mL, what will be the molarity of the solution obtained?
3. If the concentration of glucose (C₆H₁₂O₆) in blood is 0.9 g L⁻¹, what will be the molarity of glucose in blood?

4. Calculate the mass per cent of calcium, phosphorus and oxygen in calcium phosphate $\text{Ca}_3(\text{PO}_4)_2$.

5. Hydrogen gas is prepared in the laboratory by reacting dilute HCl with granulated zinc. Following reaction takes place:



Calculate the volume of hydrogen gas liberated at STP when 32.65 g of zinc reacts with HCl. 1 mol of a gas occupies 22.7 L volume of STP; atomic mass of Zn = 65.3 u.

6. The reactant which is entirely consumed in reaction is known as limiting reagent. In the reaction $2\text{A} + 4\text{B} \rightarrow 3\text{C} + 4\text{D}$, when 5 moles of A react with 6 moles of B, then

(i) which is the limiting reagent?

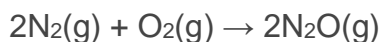
(ii) calculate the amount of C formed.

7. Calcium carbonate reacts with aqueous HCl to give CaCl_2 and CO_2 according to the reaction given below:



What mass of CaCl_2 will be formed when 250 mL of 0.76 M HCl reacts with 1000 g of CaCO_3 ? Name the limiting reagent. Calculate the number of moles of CaCl_2 formed in the reaction.

8. 45.4 L of dinitrogen reacted with 22.7 L of dioxygen and 45.4 L of nitrous oxide was formed. The reaction is given below:



Which law is being obeyed in this experiment? Write the statement of the law.

9. 100ml of 0.1M NaCl solution is mixed with 100ml of 0.2M AgNO_3 solution. Find out the mass of AgCl precipitate formed. Which reagent is limiting reagent?

10. An aqueous solution of NaCl is 10% (w/w) having density 1.071g/cm^3 . What is molarity and molality of the solution. Also calculate mole fraction of each component in the solution.

11. How much potassium chlorate should be heated to produce 2.24 L of oxygen at NTP?

12. Calculate the weight of lime CaO obtained by heating 200kg of 95% pure limestone CaCO_3 ?

13. Vitamin C is essential for the prevention of scurvy. Combustion of 0.2000g of vitamin C gives 0.2998g of CO_2 and 0.819g of H_2O . What is the empirical formula of Vitamin C?

14. Calculate the number of molecules present in 0.5 moles of CO_2 ?

15. Write Postulates of Dalton's atomic theory.

16. A sample of drinking water was found to be severely contaminated with chloroform, CHCl_3 supposed to be carcinogenic in nature. The level of contamination was 15 ppm (by mass).
- (i) Express this in percent by mass
(ii) Determine the molality of chloroform in the water sample.
17. How many significant figures are present in the following?
(i) 0.0025 (ii) 208 (iii) 5005 (iv) 126,000
(v) 500.0 (vi) 2.0034
18. How are 0.50 mol Na_2CO_3 and 0.50 M Na_2CO_3 different?
19. Which one of the following will have largest number of atoms?
(i) 1 g Au (s) (ii) 1 g Na (s) (iii) 1 g Li (s) (iv) 1 g of Cl_2 (g) (Atomic masses: Au = 197, Na = 23, Li = 7, Cl = 35.5 amu)
20. A welding fuel gas contains carbon and hydrogen only. Burning a small sample of it in oxygen gives 3.38 g carbon dioxide, 0.690 g of water and no other products. A volume of 10.0 L (measured at S.T.P.) of this welding gas is found to weigh 11.6 g. Calculate (i) empirical formula, (ii) molar mass of the gas, and (iii) molecular formula.

SUBJECT – BIOLOGY

I. PROJECT: Prepare a herbarium with at least 10 species of plants from different locations.

II. ANSWER THE FOLLOWING QUESTIONS

- Write the correct order of sequence of taxonomic categories?
- Who gave the binomial name of classification?
- Differentiate between taxon and category?
- “Botanical gardens are living herbaria”. Comment?
- Differentiate between taxonomy and systematic.
- Why do polluted water bodies have an abundant Algal bloom?
- Differentiate between
 - Virus and viroids
 - Prions and Viroids
- Give specific features of Archaeobacteria that make them special.
- What is diatomaceous earth? Why are diatoms referred to as ‘pearls of the ocean’?
- What do you understand by ‘phycobiont’ and ‘mycobiont’?
- Give an account of the asexual reproduction by spores in algae.
- Enlist the various algae and fungi that have commercial values in medicines, food, and chemicals.

13. Which pigments are responsible for the colour of algae?
14. Which groups of plants are called vascular cryptogam and phanerogamae? Why?
15. How is the leafy stage formed in mosses? How is it different from protonema?
16. List differences between gymnosperms and angiosperms?
17. What is the difference between syngamy and triple fusion?
18. The gametophytes of bryophytes and pteridophytes are different from that of gymnosperms. How?
19. Explain briefly the alternation of generation in bryophytes and pteridophytes.
20. Classify plant kingdom.

SUBJECT – MATHS

Q1. Find the value of $\frac{\cos(90^\circ + \theta) \sec(-\theta) \tan(180^\circ - \theta)}{\sec(360^\circ - \theta) \sin(180^\circ + \theta) \cot(90^\circ - \theta)}$

Q2. Evaluate $\cos\left(\frac{-31\pi}{6}\right)$.

Q3. If A is the set of all prime numbers and $P = \{0, 1, 2, 3, 4, 5, 6, 7, 8, 9\}$ then evaluate: $(A-P) \cap (P-A)$

Q4. Find the value of $\sin \frac{\pi}{8}$

Q5. Find the radian measure corresponding to the degree measure $5^\circ 37' 30''$

Q6. Prove that: $\sin(-420^\circ) \cos(390^\circ) + \cos(-660^\circ) \sin(330^\circ) = -1$

Q7. Find the domain and range of the following function:

a) $f(x) = |2x-9|$ b). $f(x) = \sqrt{16-x^2}$ c). $f(x) = \frac{1}{\sqrt{1-x}}$

Q8. (a) Two finite set have m and n elements. The total number of subsets of the first set is 56 more than the total number of subsets of the second set. Find the value of m and n. Also show that

(b) If $P(A) = P(B)$, then $A = B$.

Q9. If $\cos \alpha + \cos \beta + \cos \gamma = 0$ then prove that $\cos 3\alpha + \cos 3\beta + \cos 3\gamma = 12 \cos \alpha \cos \beta \cos \gamma$

b). $\frac{\sec 8x-1}{\sec 4x-1} = \frac{\tan 8x}{\tan 2x}$

Q10. Sytam who is students of class XI got a maths assignment from his class teacher. He did all the questions except a few. If the value of $\sin x = \frac{3}{5}$ and $\cos y = \frac{-12}{13}$, where x and y both lies in second quadrant then help sytam in solving these questions:

- 1.) What will be the value of $\cos x$?
- 2.) What will be the value of $\sin y$?
- 3.) What will be the value of $\sin (x + y)$
- 4.) Find the value of $\sin 75^\circ$

$$\sqrt{4-x} + \frac{1}{\sqrt{x^2-1}}$$

Q11. Find the domain of following:

Q12. Is $g = \{(1, 1), (2, 3), (3, 5), (4, 7)\}$ a function, justify? If this is described by relation $g(x) = \alpha x + \beta$, then what is the value of α and β .

Q13. Convert 6 radians into degree measure. (Use $\pi = \frac{22}{7}$)

Q14. Prove that: $\cot 4x (\sin 5x + \sin 3x) = \cot x (\sin 5x - \sin 3x)$

Q15. If $\sin x = \frac{3}{5}$, $\cos y = -\frac{12}{13}$, where x and y both lie in 2nd quadrant, find the value of $\sin(x + y)$.

Q16. There are 200 individuals with a skin disorder 120 had been exposed to chemical C_1 , 50 to chemical C_2 and 30 to both chemical C_1 and C_2 . Find the number of individuals

- (i) C_1 but not C_2 (ii) C_2 but not C_1 (iii) C_1 or C_2

Q17. In a city school during the admission to class XI, 18 students took English, 23 students took Hindi and 24 students took Sanskrit. Of these, 13 took both Hindi and Sanskrit, 12 took both English and Hindi and 11 took both English and Sanskrit. Due to the request made by some students, the school authorities decided that 6 students will be offered all the three languages.



Based on the above information answer the following questions.

(i) Find the total number of students who took admission in class XI.

(ii) How many students took Sanskrit but not Hindi?

(iii) How many students took exactly one of the three subjects?

(iv) How many students took exactly two of the three subjects?

Q18. If $f(x) = \frac{x-1}{x+1}$ then prove that $f(2x) = \frac{3f(x)+1}{f(x)+3}$

Q19. In a survey of 40 students. It was found that 21 had taken mathematics, 16 had taken physics and 15 had taken chemistry, 7 had taken mathematics and chemistry, 12 had taken mathematics and physics, 5 had taken physics and chemistry and 4 had taken all the three subjects. Based on the above information answer the following questions.

- Find the number of students who had taken mathematics only.
- Find the number of students who had taken physics and chemistry but not mathematics.
- Find the number of students who had taken exactly all of the three subjects.

OR

Find the number of students who had taken at least one of the three subjects.

Q20. Prove that: $\cos^2 x + \cos^2\left(x + \frac{\pi}{3}\right) + \cos^2\left(x - \frac{\pi}{3}\right) = \frac{3}{2}$.

SUBJECT- PHE

1. Define Physical Education. How has its definition evolved over the years?
2. Explain the significance of Physical Education in the modern educational system.
3. Discuss the role of technology in enhancing physical education programs.
4. What are some contemporary issues and challenges faced by physical education today?
5. How has the curriculum of Physical Education changed in the last decade?
6. Explain the importance of inclusive physical education.
7. Discuss the impact of globalization on physical education.
8. What are the various career opportunities available in the field of Physical Education?
9. What is Olympism, and what are its fundamental principles?
10. Explain the historical background of the Olympic Games.
11. Discuss the role of Pierre de Coubertin in the modern Olympic movement.
12. How does Olympism promote international understanding and peace?
13. What values are emphasized through Olympic education?
14. Explain the concept of fair play and its importance in sports.

15. Discuss the significance of the Olympic Charter.
16. What is obesity, and what are its main causes?
17. How can physical activity and yoga help in preventing obesity?
18. Describe three asanas that are particularly effective in managing obesity.
19. Explain the benefits of Surya Namaskar in weight management.
20. Discuss the role of diet along with asanas in preventing obesity.

SUBJECT - NCC

I. Project Work:

- Make a **collage** of various Natural Disasters.
- Collect related information of natural disasters.

NCC-XI-WORKSHEET

II. Subjective Questions:

Collect information about the three **most iconic names** in the history of Armed Forces:

- Field Marshal K M Cariappa
- Field Marshal Sam Manekshaw
- Paste their pictures and pen down some important characteristics of these two leaders. Include a detailed biography of them highlighting their early life, education, career in military history and awards and accolades received

III. Objective Questions:

1. A walkie-talkie operates in _____ mode:

- a) Duplex
- b) Half-duplex
- c) Half-simplex
- d) Simplex

2. The radio-set Motorola 338 GP has _____ panels.

3. Expand the following:

- a) PTT-
- b) UHF-
- c) VHF-
- d) Ni MH-
- e) Ni Cd-
- f) RSSI-

4. _____ types of indicators can be displayed on the LCD display of a walkie-talkie.
- a) 0-9
 - b) 14
 - c) 4
 - d) 7
5. The battery is fixed on the _____ panel of the radio-set.
6. The radio set was developed during the First World War. (True/False)
7. A single zone consists of _____ channels.
- a) 8
 - b) 16
 - c) 20
 - d) 128
8. A walkie-talkie is formally known as a _____.
9. The frequency range of a walkie-talkie in VHF mode is:
- a) 130 MHz to 170 MHz
 - b) 400 MHz to 550 MHz
 - c) 136 MHz to 174 MHz
 - d) 220 MHz to 274 MHz
10. Which of the statement is NOT TRUE in context of a walkie-talkie?
- a) It has a provision of battery saver mode.
 - b) Clock and alarm are not provided.
 - c) It can be operated in UHF/VHF mode.
 - d) Call Alert can be given to the receiving station.
11. The communication range of a walkie-talkie without a repeater is:
- a) 2-10 km
 - b) 4-5 km
 - c) 1-5 km
 - d) 20-40 km
12. On releasing the PTT Switch, the walkie-talkie works in _____ mode.
13. Given below are the functions of some buttons. Find the correct functions out of them:

BUTTON

FUNCTION

- i) Top Button: Channels can be selected by pressing this button.
- ii) Side Button 1: Used for Monitoring mode.
- iii) Left Key: Used for inserting space while editing.
- iv) Side Button 2: Helps in Scanning the channels.

- a) Both i) and ii)
- b) Both iii) and iv)
- c) Only ii)
- d) Both ii) and iv)

14. _____initiates and sends an emergency siren when short pressed.

15. The ON/OFF Volume Knob has a dual function. (True/False)

16. The Right-Side Accessory mount in a walkie-talkie is used for:

- a) Mounting antenna
- b) Mounting the device on a vehicle
- c) Connecting IC cables, headsets
- d) Mounting the device on a platform

17. The two developers of walkie-talkie along with the engineering teams at Motorola were _____ and _____.

18. The weight of the radio-set with Ni MH battery is:

- a) 400g
- b) 300g
- c) 320g
- d) 420g

19. A frequency range of (403 MHz to 470 MHz) indicates that the walkie-talkie is being operated on a _____mode.

20. The option of selective call facility is provided in a walkie-talkie. (True/False)

21. Apart from Ni MH and Ni Cd batteries, the other type of battery used in a walkie-talkie is a _____battery.

22. The battery charging time for this device is:

- a) 1.5 hr
- b) 1 hr
- c) 2 hrs
- d) 30 minutes

23. The LCD display is a part of _____panel of a walkie-talkie.

24. The keypad of a walkie-talkie:

- a) Has alphabets
- b) Has numbers
- c) Has distinct codes
- d) Is alpha-numeric

25. A walkie-talkie can be easily carried from one place to another. This makes it a _____ device.

26. Draw the model of Walkie- Talkie.

NOTE: QUESTION NO 1 IS TO BE DONE IN PRACTICAL/A4 SIZED SHEETS AND KEPT PROPERLY IN A FILE FOR SUBMISSION. WORKSHEET TO BE DONE IN NCC NOTEBOOK ONLY.