



Class: IX

Date: 26/11/2022

Marks: 100

Time: 2 hrs

GENERAL INSTRUCTIONS:

Read the instructions carefully before answering

1. Please fill up your Roll No. and class in the box provided on the OMR sheet.
2. This question booklet contains 50 questions and 5 Tie Breaker questions. All questions including 'Tie Breaker Questions' are mandatory. Tie Breaker questions will be evaluated only in case of a Tie.
3. Each question carries 2 marks.
4. Each question has 4 answer choices a,b,c,d.
5. For each question, select the best/correct option and darken the bubble completely against the corresponding question in the OMR sheet provided.
6. Use a blue/black ball point pen to darken the bubble.
7. Darken only one bubble against each question.
8. There will be no negative marking.

Choose the correct answer from the options given.

1. What does 'Hit the sack' mean?
a. Go to bed b. Go to play c. Hit the target d. Achieve something
2. Which of the following is not a synonym for 'vanquish'?
a. Quell b. rout c. disappear d. subdue
3. Pick out the antonym for 'apathetic'.
a. pathetic b. eager c. impassive d. stoic
4. Point out the word which is misspelt
a. Beginning b. Hygiene c. Vacuum d. Pronunciation
5. I haven't seen her lately. Pick out the word that means 'lately'.
a. Recently b. In the evening c. Late at night d. Never
6. Find out one word for "a part which is absolutely necessary"
a. Incessant b. Additional c. Indisputable d. Indispensable
7. Identify the poetic device implemented in "melancholy darkness"
a. Alliteration b. Metaphor c. Transferred epithet d. Onomatopoeia
8. If one of the angles of a triangle is 130° , then the angle between the bisectors of the other two angles can be
a. 50° b. 65° c. 90° d. 155°
9. In $\triangle ABC$, if $\angle A - \angle B = 42^\circ$ and $\angle B - \angle C = 21^\circ$, then $\angle B$ is
a. 32° b. 63° c. 53° d. 95°
10. The area of an equilateral triangle is $81\sqrt{3} \text{ cm}^2$. Its height is
a. $9\sqrt{3} \text{ cm}$ b. $6\sqrt{3} \text{ cm}$ c. $18\sqrt{3} \text{ cm}$ d. 9 cm

11. If an angle of parallelogram is two thirds of its adjacent angle, the smallest angle of the parallelogram is of measure
 a. 108° b. 54° c. 72° d. 81°
12. If the polynomials $az^3 + az^2 + 3z - 4$ and $z^3 - 4z + a$ leave the same remainder when divided by $z - 3$, Find the value of a.
 a. 1 b. -1 c. 2 d. -2
13. The point at which the graph of linear equation $x + 2y = 2$ intersects the Y axis is
 a. (1, 0) b. (0, 1) c. (2, 0) d. (0, 2)
14. Which of the following linear equation has $x = 9, y = 4$ a solution
 a. $2x + y = 17$ b. $x + y = 17$ c. $x + 2y = 17$ d. $3x - 2y = 17$
15. If angles A, B, C and D of a quadrilateral ABCD taken in order are in the ratio 3: 7: 6: 4. Then ABCD is a
 a. rhombus b. parallelogram c. trapezium d. kite
16. ABCD is a quadrilateral in which P, Q, R and S are the midpoints of the sides AB, BC, CD and DA respectively. Then which of the following is quadrilateral PQRS?
 a. Trapezium b. Kite c. Rhombus d. Parallelogram
17. Hydrogen and oxygen combine in the ratio of 1:8 by mass to form water. What mass of oxygen gas would be required to react completely with 3 g of hydrogen gas?
 a. 30 g b. 24 g c. 9 g d. 8 g
18. A stone is thrown in a vertically upward direction with a velocity of 5 m/s. If the acceleration of the stone during its motion is 10 m/s^2 in the downward direction, then the height attained by stone and the time taken to attain that height will be
 a. 1.25 m, 0.5 s b. 1.25 m, 1 s c. 2.25 m, 2 s d. 2.25 m, 3 s
19. The tissue which makes up the husk of coconut and whose cells are dead, elongated and lignified is:
 a. Chlorenchyma b. Collenchyma c. Parenchyma d. Sclerenchyma
20. A cell is having two boundaries, the outer being cell wall and inner being plasma membrane. The inherent property of this pair moving from outside to inside is:
 a. Semipermeable and Permeable b. Semipermeable and Semipermeable
 b. Permeable and Semipermeable c. Permeable and Permeable
21. The inertia of an object tends to cause the object
 a. To increase its speed b. To decrease its speed
 b. To resist any change in its state of motion c. To accelerate due to friction.
22. Matter exists in three states viz solid, liquid and gas. The change from one state to another is called phase change. The following statements are about phase change of a matter. Pick the correct statements from them
 i. Phase change occurs at all temperature
 ii. Two variables that affect the phase change are pressure and temperature.
 iii. During a phase change temperature remains constant.
 iv. During the phase change two phases coexist
 a. Only iv b. Only ii, iii and iv c. Only ii d. Only iii
23. A ball of mass 200g has a momentum 2Ns. Its kinetic energy is
 a. 10J b. 0.1J c. 1J d. 100J

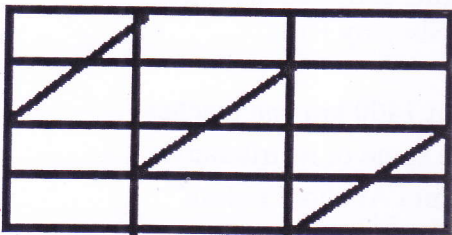
24. Among separation techniques chromatography, filtration and dialysis what is common is
- All separate solid in gas mixtures.
 - In all the techniques the physical state of the components change.
 - All techniques are based on the size of the components.
 - They do not have anything in common.
25. Chromosomes are made up of
- DNA
 - DNA and Protein
 - Protein
 - RNA
26. Which of these provisions were passed by the Assembly on the night of 4 August, 1789?
- Abolition of feudal system of obligations
 - Clergy had to give up its privileges
 - Tithes were abolished
 - All the above
27. Decrease in IMR (Infant Mortality Rate) of a country signifies:
- Increase in life expectancy
 - Increase in GNP
 - Economic development of a country
 - Increase in number of colleges in a country
28. In the context of France the volunteers from Marseilles sang the Marseillaise, a patriotic song when they marched into Paris. Who composed this song?
- Roget de Lisle
 - Maximilian Robespierre
 - Marie Antoinette
 - Mirabeau
29. Choose the correct option based on the following statements.
- Assertion (A): Even though only the southern part of India lies in tropical region, almost the whole of India experiences tropical climate.
- Reason (R): The Himalayan mountains act as a barrier and prevent the northerly cold winds from entering India.
- Both A and R are true, and R is the correct explanation of A.
 - Both A and R are true, but R is NOT the correct explanation of A.
 - A is true, but R is false.
 - A is false, but R is true.
30. Which one of the following lakes is a saltwater lake?
- Sambhar
 - Dal
 - Wular
 - Gobind Sagar
31. The Socialists took over the government in Russia through:
- February Revolution in 1905
 - October Revolution in 1917
 - Socialist Revolution in 1922
 - A revolt against the Monarchy in 1911
32. Which two hills are located in the south-east of Eastern Ghats?
- Sahyadri and Mahadev Hills
 - Kaimur hills and Maikal range
 - Patkoi Hills and Manipuri Hills
 - Javadi Hills and Shevroy Hills
33. "Rising from a spring near Mahabaleshwar, the river flows for about 1400 km and reaches the Bay of Bengal. The Koyana, the Ghatprabha, and the Bhima are some of its tributaries. Its drainage basin is shared by Maharashtra, Karnataka, Telangana and Andhra Pradesh". Which river has been described in the above-mentioned passage?
- Kaveri
 - Godavari
 - Krishna
 - Tungabhadra
34. There are two statements marked as Assertion (A) and Reason (R). Mark your answer as per the codes provided below:
- Assertion (A): When British left India, there were more than five hundred princely states in India
- Reason (R): Princely states themselves initiated the process of integration of India

- a. Both A and R are true and R is the correct explanation of A.
- b. Both A and R are true but R is not the correct explanation of A.
- c. A is true but R is false.
- d. A is false but R is true.

35. The largest railway station in the North – East Frontier Railway is?
 a. Maligaon b. Mulakheda c. New Bongaigaon d. Freon
36. Which of the following is called the ‘Metal of the future’?
 a. Lead b. Titanium c. Platinum d. Mercury
37. In which country is the Lhotse ?
 a. Nepal b. Bhutan c. Sri Lanka d. Afghanistan
38. Where is Hemis National Park situated?
 a. Jammu and Kashmir b. Calcutta c. Bihar d. Himachal Pradesh
39. National Sports Day is celebrated on which date in India?
 a. September 1st b. July 26 c. August 29 d. September 27
40. If the 5th date of month comes after 2 days from Tuesday, then which would be the day on the day before 19th of that month? TV
 a. Monday b. Wednesday c. Thursday d. Sunday
41. The chairman entered in the Assembly Hall at 10 min. before 12.30 hours to conduct the interview. The chairman was 20 min. earlier than the managing director. The chairman was 30 min. late as per the time fixed. What was the time fixed for interview?
 a. 12:50 b. 12:10 c. 12:40 d. 12:00
42. Find two words, one from each group that are closest in meaning.
 Group A: Talkative, Job, Ecstatic
 Group B: Angry, Wind, Loquacious
 a. Talkative & Wind b. Job & Angry
 c. Talkative & Loquacious d. Ecstatic & Angry

43. What number best completes the analogy 8 : 4 as 10 :
 a. 3 b. 7 c. 24 d. 5

44. How many triangles are in the following figures?



- a. 10
 - b. 14
 - c. 12
 - d. 11
45. Which of the following statement is not true?
 a. Cubes of all negative integers are positive
 b. Cubes of all odd natural numbers are odd
 c. Cubes of all even natural numbers are even
 d. Cubes of all positive integers are positive

46. Which of the following conclusion can be made from Statement 1 and 2?

- a. All algebraic statements are equations
- b. No equations are identities
- c. All identities are algebraic sentences
- d. Some identities are algebraic sentences

47. The rate of interest paid by a bank is 8% per annum. It means

- a. The interest paid by the bank is 8 rupees per year
- b. The interest paid by the bank is 8 rupees per month
- c. The interest paid by the bank is 8 rupees per 100 rupees per year
- d. The interest paid by the bank is 8 rupees per 1000 rupees per year

48. The situation of this area is out of control. People are requested to be in their home only.

Proposed inferences

- I. Some serious incident was happening there
 - II. The incident was a natural calamity
 - III. Normalcy will be restored shortly
- a. Only I
 - b. Both I and II
 - c. Both I and III
 - d. All the above

49. Assertion (A): The rivers flowing from mountain to plains tend to lose their speed.

Reason (R): The slope becomes gentle over plains

- a. Both A and R are true and R is the correct explanation of A
- b. Both A and R are true and R is not the correct explanation of A
- c. A is true, but R is false
- d. A is false, but R is true

50. Statement: Should open book system of examination be encouraged?

Arguments:

- I. Yes, it will be helpful for the deeper understanding of the subject
 - II. No, this is not a true test
- a. Both I and II are strong
 - b. Neither I nor II is strong
 - c. Only argument II is strong
 - d. Only argument I is strong

TIE – BREAKER

51. Pick out the antonym of the word 'austere'.

- a. Rigid
- b. Stringent
- c. Flexible
- d. Simple, strict and severe

52. If $a = 7 - 4\sqrt{3}$ find the value of $\sqrt{a} + \frac{1}{\sqrt{a}}$

- a. a. 3
- b. b. 4
- c. c. 5
- d. d. -4

53. Calculate the number of moles in 17g of H_2O_2 .

- a. 2 moles
- b. 0.5 moles
- c. 0.75 moles
- d. 1 mole

54. If the word DANGER is written as ECQKJX in coded language, EAGER will be written as

- a. FCJIW
- b. FDHJX
- c. FBIHV
- a. FCJKX

55. The term "Proletarianisation" refers to

- b. To become impoverished to the level of middle classes
- c. To become impoverished to the level of ruling classes
- d. To become impoverished to the level of working classes
- e. To become impoverished to the level of upper classes
