



MACRO VISION ACADEMY, BURHANPUR

Office Use

Sample Paper 2021-22

Class: IX

Time: 90 min

M.M.: 50

Student's Name:- _____ Father's Name:- _____

City:- _____ Mobile No:- _____ Exam Date:- _____

Studying in Class: _____ Appearing for class:- _____ Board: MP/CBSE/Other _____

GENERAL INSTRUCTIONS:

- The question paper has 50 questions in all. Each question carries 1 mark.
- All questions are compulsory.
- Section A contains 10 questions of Mathematics.
- Section B contains 15 questions of Science.
- Section C contains 10 questions of Social Science.
- Section D contains 5 questions of MAT (Mental Ability Test).
- Section E contains 10 questions of English.

Mathematics (10)	Science (15)	So. Science (10)	MAT (05)	English (10)	OBTAINED (50)

Section A

Mathematics

- The angles of a quadrilateral are $110^\circ, 72^\circ, 55^\circ$ and x° . Then the value of x is
 (a) 123° (b) 133° (c) 103° (d) 90°
- Rational number not between $1/3$ and $1/2$ is-
 (a) $17/18$ (b) $23/48$ (c) $3/8$ (d) $1/5$
- If the diagonal of a square is doubled, then area of the squares becomes
 (a) 2 times (b) 3 times (c) 4 times (d) 6 times
- A dice is thrown once what is the probability of getting a number, which is not prime?
 (a) 3 (b) 4 (c) $\frac{2}{3}$ (d) $\frac{1}{2}$
- Find the value of $a^2 + 2(b^2 + c^2)$, if $b=1, c=3$ and $a=2$ is
 (a) 24 (b) 13 (c) 20 (d) 30
- $\sqrt{2+\sqrt{x}}=3$ then $x=$
 (a) 1 (b) $\sqrt{7}$ (c) 7 (d) 49

7. Nisha gets 10% more than Sudha, then Sudha gets
- (a) $9\frac{1}{11}\%$ less than nisha (b) 10% more than nisha
 (c) 9% less than nisha (d) 10% less than nisha
8. A shopkeeper buys a toy for Rs 250 and sells it for Rs 285, then his gain percentage is
- (a) 6% (b) 15.5% (c) 14% (d) 20%
9. The cube root of 0.003375 is
- (a) 1.15 (b) 0.15 (c) 1.5 (d) 0.25
10. A number is such that it is as much greater than 84 as it is less than 108. Then the number is
- (a) 100 (b) 86 (c) 96 (d) 106

Section B

Science

Passage based questions

DIRECTIONS (Qs. 11 to 12): Read the passage(s) given below and answer the questions that follow.

In 1800, a British chemist, William Nicholson (1753–1815), had shown that if electrodes were immersed in water, and a current was passed, bubbles of oxygen and hydrogen were produced. Oxygen bubbles formed on the electrode connected to the positive terminal of the battery and hydrogen bubbles formed on the other electrode. The passage of an electric current through a conducting solution causes chemical reactions. As a result, bubbles of a gas may be formed on the electrodes. Deposits of metal may be seen on electrodes. Changes of colour of solutions may occur. The reaction would depend on what solution and electrodes are used. These are some of the chemical effects of the electric current.

11. Who shown that that if electrodes were immersed in water, and a current was passed, bubbles of oxygen and hydrogen were produced?
- (a) Isaac Newton (b) William Nicholson
 (c) Benjamin Franklin (d) Michael Faraday
12. Which of the following are not the chemical effects of the electric current?
- (a) Changes of colour of solutions may occur.
 (b) Changes of density of solutions may occur.
 (c) Deposits of metal may be seen on electrodes.
 (d) Bubbles may create at one of the electrodes.
13. If an object oscillates 20 times in one second, what would be its frequency?
- (a) 2 Hz (b) 20 Hz (c) 0.2 Hz (d) 4 Hz
14. Pressure exerted by 20N force on area of 0.2 m² will be _____ Pascal.
- (a) 4 (b) 20 (c) 100 (d) 10
15. When one body rolls over the surface of another body, the resistance to its motion is called
- (a) static friction (b) rolling friction (c) kinetic friction (d) None of the above

Read the given paragraph carefully and answer the following questions: (Q.16-18)

The most common fire extinguisher is water. But water works only when things like wood and paper are on fire. If electrical equipment is on fire, water may conduct electricity and harm those trying to douse the fire. Water is also not suitable for fires involving oil and petrol. For fires involving electrical equipment and inflammable materials like petrol, carbon dioxide is the best extinguisher. CO₂ cut off the contact between the fuel and oxygen and hence fire is controlled'.

- 16.** Water acts as a fire extinguisher for fires involving–
(a) Oil (b) paper (c) electricity (d) All
- 17.** Which one of the following is/are inflammable substance(s) -
(a) Petrol (b) Alcohol (c) LPG (d) All
- 18.** Carbon dioxide is the best extinguisher for the fires involving electricity because-
(a) It is lighter than oxygen and covers fire like a blanket.
(b) It is heavier than oxygen and covers fire like a blanket.
(c) It is inflammable gas.
(d) All of the above.
- 19.** Which one of the following is a Rabi crop?
(a) Pea (b) Soyabean (c) Groundnut (d) Cotton
- 20.** Combustion of a substance releases heat and
(a) Oxygen (b) Wood (c) light (d) Water
- 21.** The process of loosening of the soil is called
(a) tilling (b) harvesting (c) spraying (d) weeding
- 22.** Bacteria present in root nodules of leguminous pea
(a) Coli (b) Plasmodium (c) Rhizobium (d) Penicillin
- 23.** Which gas is major pollutant of air?
(a) Carbon monoxide (b) Nitrogen
(c) Oxygen (d) Propane
- 24.** Internal fertilization takes place in
(a) Inside male body
(b) (b) Inside female body
(c) Outside male body
(d) Outside female body
- 25.** Cells present in living organism differ in
(a) numbers (b) shape (c) size (d) all of these

Section C
Social Science

- 26.** Who was the last Viceroy of India?
(a) Lord Canning (b) Lord Mountbatten
(c) Lord Lipton (d) Lord Wellesley
- 27.** The sepoys were angry with the British because
(a) of their policy of divide and rule (b) of the cartridge episode
(c) of their intolerating behavior (d) none of these
- 28.** Gold is an example of minerals.
(a) ferrous (b) non-ferrous (c) both (a) and (b) (d) none of these
- 29.** Who has a role to play in formation of government under Universal Adult Suffrage?
(a) All adult Indians (b) Only males
(c) All children (d) None of these
- 30.** How many languages are accepted in Indian constitution?
(a) 22 (b) 28 (c) 15 (d) 20
- 31.** Who is the Chairman of Rajya Sabha?
(a) Prime Minister of India (b) President of India
(c) Vice-President of India (d) None of these
- 32.** Law on Domestic Violence was made in this year
(a) 2005 (b) 2006 (c) 2007 (d) 2008
- 33.** We have judicial system to :-
(a) To provide freedom (b) To provide food
(c) To enforce the rule law (d) None of these
- 34.** Which state shares the same High Court?
(a) Haryana & Chandigarh (b) Punjab & Haryana
(c) Both (a) & (b) (d) None of these
- 35.** The first English factory was set up in the year
(a) 1600 (b) 1651 (c) 1655 (d) 1665

Section D
MAT

- 36.** A and B are brothers. E is the daughter of F. F is the wife of B. What is the relation of E to A?
(a) Niece (b) Sister-In-Law (c) Sister (d) Daughter
- 37.** Look at this series: 71, 76, 83, 92, (...) which number should fill the blank?
(a) 105 (b) 104 (c) 102 (d) 103

38. Find the wrong number in the given series :
26, 20, 16, 11, 8, 6, 5
(a) 5 (b) 26 (c) 11 (d) 16
39. Mr. Deepak Mohan walks 5 km towards the south and then turns to the right. After walking 3 km he turns to the left and walks 5 km. What direction is he facing right now?
(a) West (b) South (c) North-East (d) South-West
40. If the letters in PRABA are coded as 27595 and THILAK are coded as 368451 then how can BHARATHI be coded?
(a) 37536689 (b) 57686535 (c) 96575368 (d) 96855368

Section E

English

Read the following passage carefully and select the correct options

The film industry is facing the challenge of the television screen which, because of its ready availability and nearness to entertainment seekers, is becoming very popular, particularly in the West where television programmes are as indispensable to people as newspaper material. Sustained entertainment for multitudes lasting two or three hours is possible only in big cinema halls. Scenic beauty, background effects and colour techniques which have made the products of cinema industry so attractive and delightful may not be reproduced by television programme organisers, and therefore, this important invention in the field of wireless communication, in spite of having become a big rival of the cinema, may not succeed in replacing it.

The motion picture has also stepped into the international sphere as an agent of goodwill and co-operation among nations. Cultural contacts which tend to reduce tension in the world and bring harmony in international relations have been established through the medium of films. The more people understand and appreciate the past history, present aims, customs, habits and beliefs of men and women in foreign lands, the more will they realise that their interests can best be served by establishing friendly relations with them and by removing those irritants which breed distrust, lack of co-operation and the desire to punish those whose views and attitudes are such as they do not like. As cultural agents movies can cement ties of love and brotherhood among nations and teach them to confer on each other the benefits of all the rich and glorious achievements of the present enlightened age. In recent years, artists of the film world have been visiting foreign lands with a view to presenting before audience in those countries the best products of their cultural heritage. Film festivals which many European and Asian countries have been organising from time to time have also proved to be of immense value in reducing social barriers, colour prejudices and other causes of friction between nations.

41. The film industry is facing the challenge of:
 (a) the theatre (b) financial crunch
 (c) waning people's interest (d) television screen
42. The TV has become popular because of:
 (a) its entertaining programmes (b) its educative value
 (c) its ready availability and nearness (d) its wide appeal
43. Three things which make cinema so attractive are:
 (a) scenic beauty, background effects and beautiful faces
 (b) scenic beauty, good sets and colour techniques
 (c) scenic beauty, gaudy dresses and colourful techniques
 (d) scenic beauty, background effects and colour techniques
44. Films have become agents of:
 (a) pioneering (b) providing (c) conferring (d) goodwill and cooperation
45. Which of these reduces the tension of the people and bring harmony?
 (a) film industry (b) television programme
 (c) beauty of nature (d) cultural context
- Put the verbs in bracket in the correct tense and rewrite the following:**
46. The efficiency of a truck _____ by the load it can take.
 (a) knows (b) is known (c) has been known (d) has known
47. Last week every day my maid _____ a plate.
 (a) breaks (b) was broken (c) broke (d) has broken
48. If I _____ one more question, I would have passed.
 (a) had answered (b) would answer (c) has answered (d) would have answered
49. The minister promised _____ me a post in his department.
 (a) to have given (b) having given (c) have given (d) to give
50. Please don't _____ when you go out.
 (a) leave opening the door (b) leave the door open
 (c) leave the door opened (d) leave open the door
