



ಕರ್ನಾಟಕ ಸರ್ಕಾರ

ಶಾಲಾ ಶಿಕ್ಷಣ ಇಲಾಖೆ, - ಜಿಲ್ಲಾ ಪಂಚಾಯತ್ ಮೈಸೂರು

ಜಿಲ್ಲಾ ಉಪನಿರ್ದೇಶಕರ ಕಛೇರಿ, ಶಾಲಾ ಶಿಕ್ಷಣ ಮತ್ತು ಸಾಕ್ಷರತಾ ಇಲಾಖೆ, ಮೈಸೂರು ಜಿಲ್ಲೆ

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**PRACTICE PAPER - 3**

**Subject: Science      Subject code: 83E**

**Time : 3 Hr 15 Min Max Marks : 80**

**ENGLISH MEDIUM**

**School Candidates**

*General Instructions to the Candidate :*

1. There are three parts in the question paper : Part A : Physics, Part B : Chemistry, Part C : Biology.
2. This question paper consists of objective and subjective types of 38 questions.
3. This question paper has been sealed by reverse jacket. You have to cut on the right side to open the paper at the time of commencement of the examination. Check whether all the pages of the question paper are intact.
4. Follow the instructions given against both the objective and subjective types of questions.
5. Figures in the right hand margin indicate maximum marks for the questions.
6. The maximum time to answer the paper is given at the top of the question paper. It includes 15 minutes for reading the question paper.

**PART – A**

**PHYSICS**

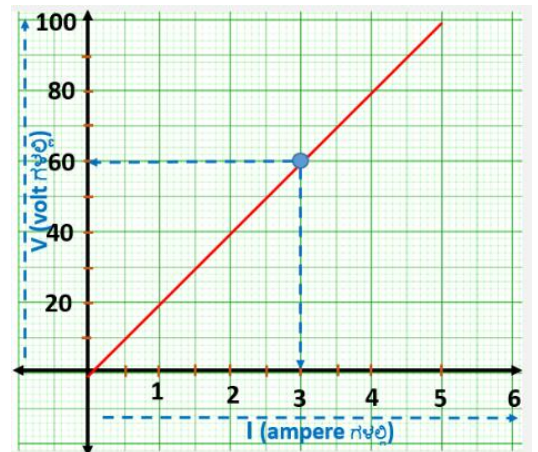
**I. Four alternatives are given for each of the following questions / incomplete statements. Choose the correct alternative and write the complete answer along with its letter of alphabet.**  
**2 x 1 = 2**

1. Tyndall effect means

- A) phenomenon of light scattering by colloidal matter
- B) phenomenon of the sun appearing 2 minutes before actual sunrise
- C) phenomenon of change in speed of light due to change of medium
- D) phenomenon of light incident on an object returning to the medium through which it traveled

2. Electrical resistance when observed through this graph is

- A) 20  $\Omega$
- B) 2  $\Omega$
- C) 160  $\Omega$
- D) 40  $\Omega$



**II Answer the following questions**

**3 x 1 = 3**

- 3. What type of lens is used to correct short sight vision?
- 4. State the working principle of electric motor.
- 5. State Snell's law of refraction of light.

**III Answer the following questions**

**3 x 2 = 6**

- 6. List any 2 factors on which the resistance of a conducting wire depends.
- 7. How do you apply the right-hand rule of thumb to identify the direction of current flowing in a conductor and the direction of magnetic field lines?

Or

How do you increase the amount of electricity induced in an electric generator?

8. Draw a ray diagram of the image formed by the mirror when an object is kept in between C and F, and mark the position of the image. ( C-Centre of curvature & F- Principal focus of the mirror)

**IV Answer the following questions**

**3 x 3 = 9**

9. What is the function of a fuse? Mention any 2 precautionary measures that can be taken to avoid overloading in electric circuits.

Or

What is a solenoid? Write any 2 properties of magnetic field lines around a magnet.

10. "Hydrogen fuel is better than compressed natural gas". Justify this statement and list any 4 qualities of an ideal form of energy.

11. Draw a diagram of human eye and name the following parts.

a) Pupil b) Cornea and c) Retina and d) Crystalline lens

**V Answer the following questions**

**2 x 4 = 8**

12. a) The power of the lens in the spectacles worn by a person is -2.5D. Find the focal length of that lens and name the type of lens.

b) State any 2 differences between convex lens and concave lenses.

Or

**A concave lens has a focal length of 12cm. At what distance should the object from the lens be placed so that it forms an image at 8cm from the lens? Also find the magnification produced by the lens.**

**13.** In a circuit consisting of a 6V battery three resistors of  $10\Omega$ ,  $20\Omega$  and  $30\Omega$  are connected in parallel, draw a diagram showing this arrangement connected in series with a plug key and an ammeter and find the value of the following.

(A) Current flowing through each resistor

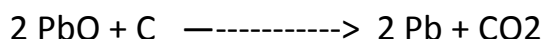
(B) Total current in the circuit

(C) Total resistance of the circuit.

PART B - CHEMISTRY

**VI. Choose and write the appropriate answer to the following**  
**3x1=3**

14. Which of the statements about the reaction below are incorrect?



- a) lead is getting reduced      b) Carbon dioxide is getting oxidized  
c) Carbon is getting oxidized    d) lead oxide is getting reduced.  
i) a and b    ii) a and c    iii) a, b and c    iv) All of the above

15. Butanone is a four carbon compound with the functional group

- a. carboxylic acid      b) aldehyde      c) Ketone      d)alcohol

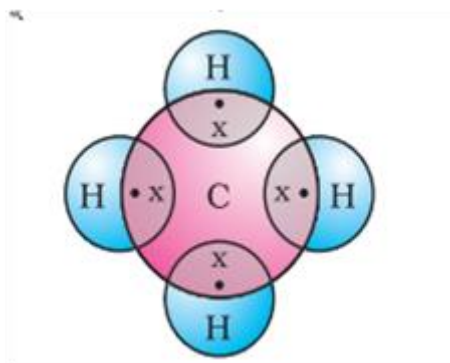
16. The metallic character of elements as they move from left to right of a period in the modern periodic table is

- a. Decreases                      b) Increases  
c) No changes                      d) decreases first and then increases

**VII. Answer the following questions in one word or sentence.**      **3x1=3**

17. What is Rancidity?

18. Name the following electron dot structure.



19. Define Newland law of Octaves.

**VIII. Answer the following in 2-3 Sentence**      **3x2=6**

20. Draw a neat Diagram of the arrangement of apparatus to show that

acid solution in water conducts electricity.

21. Give Reason

- a. Metals are used in making cooking vessels.
- b. Sodium metal is stored in kerosene.

22. How could the Modern periodic table remove various anomalies of Mendeleev's periodic table?

**OR**

An Atom has electronic configuration 2,8,7

- a. What is the atomic number of this element.
- b. To which of the following elements would it be chemically similar?  
( Atomic number- N = 7 F = 9 P = 15 Ar = 18 )

**IX. Answer the following questions.**

**3x3=9**

23. Draw a neat and labelled diagram of the arrangement of apparatus to show the action of steam on a metal.
24. Explain the three types of Decomposition reactions with example.
25. Give two important uses of washing soda and plaster of Paris.

**OR**

Explain Chlor-Alkali Process.

**X. Answer the following questions.**

**1x4=4**

26. a) what are structural isomers? Write the molecular and structural formula of butane.
- b) what is catenation? Write the general Formula for alkenes.

PART C – BIOLOGY

**XI. Select and write the most appropriate option out of the four options for each of the questions:-**

**1x3=3**

\*Which one of the following juices secreted in the human body does not contain any enzyme.?

a) salivary juice

b) bile juice

b) gastric juice

d) pancreatic juice.

\*Identify the disease which is caused by a virus.

a) syphilis

b) genital warts

c) gonorrhoea

d) both (a) and (c)

\*If pea plants having round green and wrinkled ,yellow seeds are crossed , What phenotype ratio will be obtained in F<sub>2</sub> progeny plants ?

a) 1 : 2: 1

b) 3 : 1

c) 9 : 3 : 3 :1

d) 9 : 3 : 4

**XII. Answer the following questions in one word or sentence. 1x2=2**

30. Give an example of a plant hormone that promotes growth.

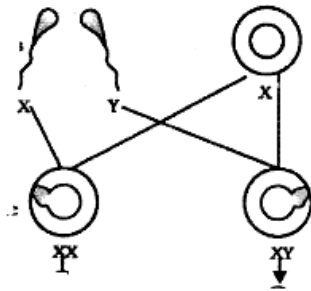
31. What is Variation ?

**XIII. Answer the following questions**

**2 x 2 = 4**

a) Label (1) and (2) in the given diagram showing sex determination in human beings.

- b) If a child inherits X chromosome from the father , What will be his/her gender?

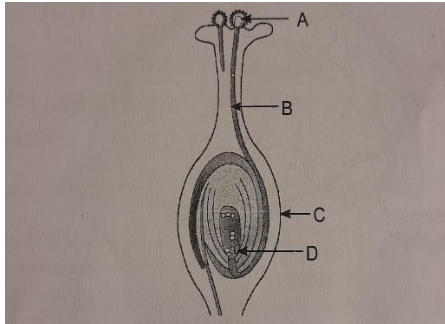


32. What is Ozone layer ? How is ozone layer getting depleted ?

**XIV. Answer the following questions.**

**3x3=9**

33. Identify A, B and C in the given diagram and Write one function of each.



34. What are fossils ? How do we know how old the fossils are ?

OR

Why are Human beings who look so different from each other in terms of size, colour, and looks said to belong to the same species ?

35. List 5 R's. Explain any two of them.

OR

Explain social, Economical and environmental problems due to build of large Dams.

**XV. Answer the following questions.**

**1x4=4**

36. i) Draw a neat diagram of Human Brain and label the following parts

a) Cerebrum                      b) Medulla                      c) Pons

ii) Mention any two functions of cerebellum.

**XVI. Answer the following questions.**

**1x5=5**

(a) Name the process and explain the type of nutrition found in green plants. .List the raw materials required for this process. Give chemical equation for the mentioned process .

(b) Write the events that occur during this process.

**OFFICE OF THE DEPUTY DIRECTOR OF SCHOOL EDUCATION  
DEPARTMENT, MYSURU DISTRICT, MYSURU.**

**Model Paper-01 2023-24**

**10<sup>TH</sup> STANDARD  
MAX. MARKS -80**

**SOCIAL SCIENCE  
TIME-3-15 HOUR**

**I. Four choices are given for each of the following questions / incomplete statements. Choose the correct answer and write the complete answer along with its letter of alphabet. 8X1=8**

- 1. The most important democratic movement that was carried out in post-independence India was**  
A) Freedom struggle                      B) The movement for linguistic formation of states  
C) Environmental movement      D) The movement of farmers
- 2. The first-ever nuclear bomb on Hiroshima and Nagasaki of Japan in 1945 was thrown by**  
A) Russia                                      B) Germany  
C) Italy    D) America
- 3. The Existing body to control corruption in Karnataka is**  
A) Lokayukta                                  B) Lokpal  
C) Human Rights Commission              D) Women's Commission
- 4. The 'Child Labour Prohibition and Control Act enacted in the year**  
A) 1961                      B) 1976                      C) 1986                      D) 1993
- 5. It is called as 'Black Diamond'.**  
A) Mica                      B) Iron ore                      C) Manganese ore                      D) Coal
- 6. The industry which known as basic industry is**  
A) Iron and steel industry                      B) Cotton Textile industry  
C) Paper industry                                  D) Sugar industry
- 7. The Father of Green Revolution in India is**  
A) Dr. Norman Borlaug                      B) Dr. MS Swaminathan  
C) Sir. M Visvesvaraya                      D) Dr. B.R. Ambedkar
- 8. The king of the market is**  
A) Merchant                      B) Producer                      C) Agent                      D) Consumer

**II. Answer the following questions in a sentence each. 8 x 1=8**

- 9.** Mahatma Gandhi took to fast in Calcutta, reading the Bhagavat Gita. Why?
- 10.** What was the immediate cause for the World War I?
- 11.** Which country helped to the Tashkent agreement between India and Pakistan?
- 12.** What is Riot?
- 13.** Who are the child labourers?
- 14.** What is the reason for abrupt floods in the Himalayan mountains?
- 15.** What are economic fluctuations?



16. A person owns a car worth 15 lakhs. Although there are some problems with that car, the company is not responding properly. Then to which forum/commission should the person complain?

**III. Answer the following questions in two to four sentences or points. 8 x 2 = 16**

17. How did trade take place between India and Europe during middle age?  
18. What were the states that conquered by the British due to the Doctrine of lapse Policy?  
19. What are the reasons for the tension between India and Pakistan?

**OR**

Explain the struggle lead by India the implementation of human rights.

20. Explain the nature of discrimination in labour.

**OR**

Explain about the Appiko movement that took place in Karnataka.

21. The eastern part of the Western Ghats is a rain shadow area. Substantiate.  
22. How are flood canals different from perennial canals?  
23. Name the major housing programs that implemented to provide house to the homeless.  
24. Entrepreneurship is a creative activity. Why?

**IV. Answer the following questions in six sentences or points. 9 x 3 = 27**

25. What were the factors that motivated the Europeans to find a new sea route to India?

**OR**

What were the conditions under Subsidiary Alliance system?

26. What are the impacts of British land tax system in India?  
27. The 19th century in Indian history is referred to as the period of 'Indian renaissance'. Justify.  
28. Mention the plans to solve the population problem.  
29. In recent days untouchability is dying down. Justify.  
30. Mention the differences between the Eastern Ghats and the Western Ghats.  
31. How can we prevent soil erosion?

**OR**

The area of forests in India has been continuously declining recently. Why?

32. Rural development is supplementary to the economic development of the country. Justify.

**OR**

How is public finance different from personal finance?

33. What are the functions of a bank?

**OR**

What are the information in the complaint filed by the consumer court?

**V. Answer each of the following questions in eight sentences or paragraphs. 4 x 4 = 16**

34. State the achievements of Krishnaraja Wodiyar IV.  
35. State the political and economic factors that led to the First War of Indian Independence in 1857.

**OR**

Explain the role of Subhash Chandra Bose in the freedom struggle of India.

36. Explain the structure and the functions of the General Assembly of the United Nations.  
37. List out the factors that influencing the land use in India.

**VI. 38. Draw a map of India and mark the following on it. 1 + 4 = 5**

- A) Kaiga  
B) Digboi of Assam  
C) Ahmedabad  
D) Davanagere

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**OFFICE OF THE DEPUTY DIRECTOR OF SCHOOL EDUCATION  
DEPARTMENT, MYSURU DISTRICT  
Model Paper-02 2023-24**

**10<sup>TH</sup> STANDARD**

**SOCIAL SCIENCE**

**MAX. MARKS -80**

**TIME-3-15 HOUR**

**I. Four choices are given for each of the following questions / incomplete statements. Choose the correct answer and write the complete answer along with its letter of alphabet. 8X1=8**

**1. The civil service system was introduced by**

- |                    |                          |
|--------------------|--------------------------|
| A) Lord Wellesley  | B) Lord Dalhousie        |
| C) Lord Cornwallis | D) Lord William Bentinck |

**2. The correct group of the countries of Triple Entente is**

- |                                    |                              |
|------------------------------------|------------------------------|
| A) Germany, Austria-Hungary, Italy | B) Britain, France, Russia   |
| C) America, Germany, Italy         | D) Britain, America, Germany |

**3. India and other countries need to find a way out of 'Definitive Destruction' staring at the humanity. Here 'definitive Destruction' means**

- |                        |                |
|------------------------|----------------|
| A) Economic Inequality | B) Terrorism   |
| C) Race of Armaments   | D) Colonialism |

**4. An artist painting a picture for his own satisfaction is an example for**

- |                       |                             |
|-----------------------|-----------------------------|
| A) Paid Work          | B) Unpaid Work              |
| C) Division of Labour | D) Discrimination in Labour |

**5. The Wonder Metal of the 20th century is**

- |              |              |
|--------------|--------------|
| A) Manganese | B) Mica      |
| C) Iron      | D) Aluminium |

**6. Another devastating disaster caused by an earthquake is**

- |            |            |
|------------|------------|
| A) Tsunami | B) Volcano |
| C) Flood   | D) Storm   |

**7. The Central budget placed in the Lok Sabha by the**

- |                     |                   |
|---------------------|-------------------|
| A) Finance Minister | B) President      |
| C) Prime Minister   | D) Vice President |

**8. The world consumer day celebrated every year on**

- |               |                |
|---------------|----------------|
| A) January 15 | B) February 15 |
| C) March 15   | D) April 15    |

**II. Answer the following questions in a sentence each:**

**8 × 1 = 8**

9. What was the main aim of Charter Acts?
10. What was the reason for the Great Economic Depression of 1930?
11. What is disarmament?
12. Why has Equal wages act enacted in 1976?
13. Who led Chipko movement?
14. The Government of India established the National Highways Authority in 1989. Why?
15. What is rural development?
16. Consumer protection is very important. Why?

**III. Answer the following questions in two to four sentences each: 8 × 2 = 16**

17. Explain the reasons for the First Anglo-Maratha War.  
18. Name the important societies which worked for the reformation of Indian society.  
19. Describe the relationship between India and America.

**OR**

State the main problems faced after the Second World War.

20. What are the problems of untouchability?

**OR**

Explain the importance of Women Self Help Groups.

21. India is a subcontinent. Substantiate.  
22. How are the two branches of southwest monsoon winds different from each other?  
23. Name the four types of direct taxes.  
24. What are the services provided by District Industrial Centres to Entrepreneurs?

**IV. Answer the following questions in six sentences / points each: 9×3=27**

25. What were the results of the Battle of Buxar?  
26. List out the effects of British education in India.

**OR**

How did Dondiya Wagh fight against the British?

27. The First War of Indian Independence brought revolutionary changes in the British administration and Indian freedom struggle. Substantiate.  
28. Explain the aims of the United Nations Organizations.  
29. The Government had undertaken many measures to eradicate child labour. Justify the statement.  
30. What are the causes of soil erosion?  
31. Rain water harvesting is mandatory today. Why?

**OR**

Horticulture has progressed very well in India in recent years. Justify.

32. Government intervention in the economy of developing nations is inevitable. Justify.

**OR**

Illustrate the role of Panchayat Raj Institutions in rural development with suitable examples.

33. List out the characteristics of banks.

**OR**

List out the characteristics of an entrepreneur.

**V. Answer the following questions in about eight sentences each: 4 × 4 = 16**

34. Explain the method adopted by Sangolli Rayanna to fight against the British.

**OR**

Explain the role of extremists in the freedom struggle of India.

35. The integration of Kashmir with Indian union is unique compared to other provinces. How?  
36. What are the measures undertaken by the government to improve the status of women in India?  
37. What are your suggestions to the conservation of forests?

**VI. 38. Draw an outline map of India and mark the following: 1 + 4 = 5**

- A) Narora  
B) Hatti of Raichur  
C) Nadaprabhu Kempe Gowda International Airport  
D) Bhopal

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**OFFICE OF THE DEPUTY DIRECTOR OF SCHOOL EDUCATION  
DEPARTMENT, MYSURU DISTRICT  
Model Paper-03 2023-24**

**10<sup>TH</sup> STANDARD**

**SOCIAL SCIENCE**

**MAX. MARKS -80**

**TIME-3-15 HOUR**

**I. Four choices are given for each of the following questions / incomplete statements. Choose the correct answer and write the complete answer along with its letter of alphabet. 8X1=8**

- 1. The main reason for Francisco de Almeida implemented 'blue water policy' was**  
A) To establish supremacy over land                      B) To establish supremacy over sea  
C) To conquer Goa    D) To defeat the sultan of Bijapur
- 2. Teen murti bhavan located at**  
A) Delhi    B) Bangalore  
C) Kolkata    D) Mumbai
- 3. The organ of the United Nations which functions like a global parliament is**  
A) Secretariat    B) General Assembly  
C) Trusteeship Council    D) Security Council
- 4. Narmada movement was led by**  
A) Sundar Lal Bahuguna and Chandi Prasad Bhat  
B) Medha Patkar and Baba Amte  
C) Shivaram Karanth  
D) Kerala Sahidya Parishad
- 5. India became signatory of Child Rights Convention of the UN in**  
A) 1992                      B) 1994                      C) 1945                      D) 1948
- 6. This natural disaster can be prevented by growing mangrove forests along coast**  
A) Landslide    B) Coastal Erosion  
C) Earthquake    D) Cyclone
- 7. 'Development of its villages is the true development of India' this statement was said by**  
A) Mahatma Gandhi    B) Dadabai Navroji  
C) Dr B. R Ambedkar    D) Swami Vivekananda
- 8. If compensation exceeds more than one crore, the compliant should lodge in**  
A) District Forum    B) State Commission  
C) National Commission    D) Supreme Court

**II. Answer the following questions in a sentence each. 8x1=8**

- 9.** When was the Dutch East India Company established in India?
- 10.** What is cold war?
- 11.** Where is the head quarter of international court of justice located?
- 12.** Why was the Silent Valley movement conducted?
- 13.** Which soil is formed from the weathering of igneous rock?
- 14.** What is Tsunami?
- 15.** What do you mean by Economic Planning?
- 16.** Consumer protection is essential today. Why?

**III. Answer the following questions in two of four sentences each. 8x2=16**

17. Mention the outcomes of the battle of Plassey.
18. State the reasons for the first Anglo-Maratha war.
19. Explain the relationship between India and Russia.

**OR**

Explain the measures undertaken by India to eradicate economic inequality.

20. List out the reasons for unemployment.

**OR**

Mention the reasons for agitation against Kaiga.

21. Explain the economic importance of the peninsular plateau.
22. 'Rain water harvesting is compulsory today'. Why?
23. "Women are achieving progress politically". Illustrate with examples.
24. Name any four business organizations that entrepreneurs can set up.

**IV. Answer the following questions in six sentences/points each. 9x3=27**

25. Analyze the judicial system organized by the British through the East India Company.

**OR**

Chikkadevaraja Wodiyar was an efficient soldier and administrator.

26. Analyze how administrative factors contributed to India's first war of independence
27. Explain the reforms advocated by the Satyashodhak Samaj.
28. What are your suggestions to control smuggling?
29. Explain the nature of discrimination in labour.
30. What are the factors influencing the location of industries?

**OR**

What are the precautionary measures that can be taken during cyclones?

31. Explain the importance of communication.
32. Explain Gandhiji's concept of 'Grama swarajya' in the light of decentralization.

**OR**

Explain the aspects of non-tax revenue of the Central government

33. Describe the procedures to open a bank account.

**OR**

Explain the role of entrepreneur in the economic system.

**V. Answer the following questions about eight to ten sentences each. 4x4=16**

34. The struggle of the tribals was very important in the freedom struggle. Why?
35. How do you say that the Age of Moderates is also called the Age of Generous Nationalism.

**OR**

"Britain utilised the resources of India during the second world war effectively".  
Substantiate the statement.

36. Today all the nations of the world need to strive against mutual destruction. Why?
37. List out the biosphere reserves of India.

**VI. 38. Draw a neat outline map of India and mark the following. 1+4=5**

- |                                     |                |
|-------------------------------------|----------------|
| A) The line of Indian standard Time | B) Utkal Coast |
| C) Narmada River                    | D) Pampa Sagar |

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