Mathematics (50M)

A. Tick (√) the correct answer- (10M)

i) The complement of 20.5° is
a) 70.5° b) 69.5° c) 79.5° d) 90°

ii) **The supplement of 135.5° is**
a) 45.5° b) 35.5°
c) 44.5° d) 54.5°

iii) **Which of the following is a pair of complementary angles?**
a) (59°, 41°) b) (59°, 31°)
c) (20°, 80°) d) (20°, 50°)

iv) **Which of the following is a pair of supplementary angles?**
a) (1.5°, 178.5°) b) (125°, 45°)
c) (118°, 72°) d) (121°, 60°)

v) **The sum of three angles of a triangle is always.**
a) 180° b) more than 180°
c) less than 180° d) n.o.t

vi) **The largest chord of a circle is – of the circle.**
a) Radius b) Diameter
c) Circumference d) Area

vii) **Value of diameter of a circle whose radius is 3cm.**
a) 6cm b) 8cm c) 10cm d) 12cm

viii) **Value of radius whose diameter is 15cm.**
a) 7.5 b) 8.5 c) 7cm d) 9cm

ix) **80m/sec= ?**
a) 280km/hour b) 288 km/hour
c) 300km/hour d) 325km/hour

x) **72 km per hour =?**
a) 20m/sec b) 35m/sec
c) 40m/sec d) 50m/sec

B. Fill in the blanks (5M)

i) A ray has ……… end point.
ii) The roman numerals for 797…………
iii) A triangle has …….. sides and ……….. angles.
iv) A triangle whose one angle is 90° is called………
v) Radius of a circle = diameter ÷ ……..

C. Write 'True' or 'False' (5M)

i) Each angle of an equilateral triangle is equal.
ii) An acute angle triangle has its all angles acute.
iii) The sum of three angles of a triangle is 180°
iv) The sum of four angles of quadrilateral is 360°
v) A ray has two end prints.

D. Match the following:- (5M)

i) Complement angle of 20° a) $\frac{35}{100}$
ii) Supplement angle of 110° b) 36%
iii) $\frac{9}{25}$ as percentage c) 70°
iv) 35% d) 30.023
v) $30+\frac{2}{100}$ e) 70°

E. Solve the following (15M)

i) In our school there are 2500 students. Out of them 15% are girls. Find
 a) the number of girls
 b) the number of boys

ii) Find the rate of interest if principal = Rs 600, T= 5 years, Amount = Rs 870

iii) In what time the simple interest on Rs 2500 at 8% per annum will be RS 400.

iv) In Δ ABC if
<C= 70° , $< A= 80°$, find $< B =$?

v) Find the circumference of the circle whose radius is 4.9cm.

F. Long answer type questions (10M)

i) Construct a "rectangle" of sides AB= 5cm and AD= 4cm.

ii) A room is 5m long, 4m wide and 3.5 m high . Find the cost for white washing the four walls and the roof of the room at the rate of 75 paise per square meters.

Science (50M)

A. Multiple choice questions: (10M)

1. **The leaves of cactus plant are modified into**
 a) Root b) stem c) Spines d) flower

2. **Cuscuta is a**
a) parasitic plant b) insectivores plant
c) desert d) n.o.t

3. **During photosynthesis is, ……. Is released into the atmosphere.**
a) carbondioxide b) Nitrogen
c) Oxygen d) N.o.t

4. **The flat broad surface of the leaf is known as**
a) leaf blade b) stomata
c) main vein d) petiole

5. **Animals that come out at night in search of food and water are called**
a) Amphibians b) Aerial animals

c) aquatic animals   d) nocturnal animals

6. **The white part in the egg is called**
   a) yolk b) embryo   c) albumen   d) maggot

7. **The part of the teeth which we can see when we smile is called the ....**
   a) crown   b) root c) enamel   d) dentine

8. **The smallest planet is ....**
   a) Uranus   b) mercury c) Neptune d) Earth

9. **The earth completes one revolution in ....**
   a) 28 days   b) $365\frac{1}{4}$ days
   c) 24 hours   d) 365 hours

10. **The conversation of watervapour into water is called………**
    a) transpiration   b) respiration
    c) evaporation   d) condensation

B. **Write one word for each of the following:- (5M)**
   1. Animals that fly in air
   2. Animals that live on trees
   3. Animals that live both on land and water
   4. Animals that come out at night in search of food
   5. Long winter sleep

C. **Fill in the blanks . (5M)**
   i) Push or pull is called……….
   ii) Energy is the ………. to do work.
   iii) Light travels in a ………. line.
   iv) Matter exists in ………. States.
   v) The level of the ………. In an area is called water table.

D. **Write True or False (5M)**
   i) Solids and liquids have fixed volumes.
   ii) The removal of fertile top soil is called soil erosion.
   iii) The moon is the main source of light and heat on the earth.
   iv) Sun is the ultimate source of energy
   v) The sun plays a major role in causing weather changes.

E. **Short answer type questions (15M)**
   1. What does habitat mean?
   2. What are mammals? Give two examples.
   3. Why do we need food?
   4. What do you understand by the term 'pollution'?
   5. What is a planet? Name all planets of the solar

F. **Draw the figure of Human digestive system and label its parts. (5M)**

Draw the figure of teeth and label its parts.

G. **Do an activity to show that light travels in a straight line and mention its conclusion. (5M)**

SST (50M)

A. **Multiple choice questions. (10M)**

1. **Orchards and tea plantation are found in :**
   a) Himadri   b) Shiwalik
   c) Himachal   d) Trans

2. **The Bhakra Nangal Dam is built on the river**
   a) Ravi   b) Bear
   c) Satluj   d) Luni

3. **The soil found in Malwa plateau is :**
   a) Black   b) Alluvial
   c) Desert   d) Red

4. **The Total length of coast line of India is :**
   a) 6500 km   b) 8000 km
   c) 7517 km   d) 8850 km

5. **Aluminium is extracted from**
   a) copper   b) gold
   c) bauxite   d) iron ore

6. **Crops grown for commercial purpose are called:**
   a) food crops   b) cash crops
   c) fibre crops   d) commercial crops

7. **The oldest road in India is :**
   a) NH-19   b) NH-1
   c) NH-24   d) NH-10

8. **Kesri and Maratha were the two newspaper started by:**
   a) Tatya Tope   b) Bal Gangadhar Tilak
   c) Bhagat Singh   d) Mahatma Gandhi

9. **The Ajanta paintings depict scenes from the life of:**
   a) Mughals   b) Lord Buddha
   c) Lord Mahavira   d) Ashoka

10. **The law making body of the government is:**
    a) Executive   b) Legislature
    c) Judiciary   d) Preamble

B. **Fill in the blanks. (5M)**
   1. ………………… means that the country has no monarch to rule over it.
   2. …………………protect us from foreign invasions.
   3. ………………… is the head of the whole country.
   4. The name of the adopted son of Rani Lakshmi bai was …………………
   5. The first city discovered in India was …………………

C. State whether the following statements are true or false: (5M)

1. India does not have suitable soil for agriculture. (   )
2. Raw material is not required to set up and run an industry (   )
3. The human resource is the most important resource of a country (   )
4. The oldest road in India is NH-19 (   )
5. The call of Quit India movement was given by

D. Write full form of any three : (6M)

i) W.W.W
ii) D.T.H
iii) C.N.G
iv) L.P.G

E. Answer in one word: (4M)

1. Who was the first woman president of Indian National Congress?
2. Rani Lakshmibai took over the rule of which region?
3. Who is the highest authority in a state ?
4. Which India state is often called the heart of India.

F. Answer in Short: (Answer any two)($2 \times 2 = 4M$)

1. What is plantation crop? Give examples.
2. Write the names of the some major airlines of India.
3. Write the names of the books written by the Aryans.

G. Answer in long: (Answer any two) ($2 \times 3 = 6M$)

1. Write a short note on the union territory which is located in the Eastern coastal plains.
2. Write a short note on Rani Lakshmibai.
3. Write down the effects of soil erosion.
4. Write a short note on water ways and airways.

H. Answer in long: (Answer any two) ($10M$)

1. Justify the statement, 'Duties without rights and right without duties' have no meaning.
2. Differentiate between metallic and non-metallic minerals.
3. What is deforestation and what are the problems caused by it?
4. Enumerate the statement; Agriculture is the most important occupation of the people of our country.

English (50M)

1. Read the passage and answer the questions that follow.

Abhi likes going on picnics with her family she loves getting ready for the picnic. She helps her mother to make sandwiches and rolls. She counts the paper plates and napkins. She remembers to pack the water and drinks. Mother packs a flask of tea for the elders. They are going to the 'Bhim Bandh' today. Her brother, Arup, packs the ball and the badminton kit. Father packs the picnic mat and starts blowing the horn. Grandpa tucks his newspaper under his arm, and Grandma puts a bag of treats in her handbag- chocolates, as usual! She also carries an extra empty bag to pick up picnic leftovers. Picnics are always fun!

i) Answer the following questions. (4M)

a) What does Abhi like to do with her family?
b) Why does Grandma take an empty bag?
c) Who does Abhi help?
d) Who is Arup?

ii) Match what each person packs. (6M)

a) Mother — i) ball and badminton kit
b) Father — ii) newspaper
c) Abhi — iii) food and water
d) Arup — iv) Flask of tea
e) Grandpa — v) Picnic mat
f) Grandma — vi) Chocolates and empty bag

2. Write antonyms of the following words: (4M)

i) Failure
ii) Import
iii) Pleasure
iv) joy

3. Match the words with their opposite meanings. (5M)

a) Punishment — i) generous
b) Niece — ii) calm
c) Stingy — iii) wept
d) Angry — iv) reward
e) Smiled — v) rude

4. Write an application to the principal of your school asking him for three days leave. (5M)

5. Write a short essay on any one of the following: (5M)

i) Deepawali

Or

ii) My town

6. Translate into English (5M)

i) बच्चे रोज शतरंज खेलते हैं।
ii) मैं तुमसे बात नहीं करना चाहता हूँ।
iii) राम कल स्कूल गया।

iv)   मैं तुम्हारा इंतजार नहीं करूँगा।

v)   चपरासी घंटी बजा चुका हैं।

7. **Give one word for each of the following: (6M)**

i)   One who sells medicines.

ii)   One who builds houses.

iii)   One who sells flowers.

iv)   One who works with wood.

v)   One who mends shoes.

vi)   One who writes books

8. **Change the following sentences into passive voice. (3M)**

i)   Children like toys.

ii)   John took a photograph.

iii)   The police will catch the thief

9. **Change the following sentences into indirect speech. (3M)**

i)   I said to him, "You are my best friend".

ii)   My father said, " I am going to Delhi tomorrow".

iii)   Navin said to Neha, " I saw Mohan in the park".

10. **Correct the spelling of the following words. (4M)**

allways, crocodyle , rescuse , criated

Hindi (50M)

1. **वस्तुनिष्ठ प्रश्न :– (10M)**

i)   हॉल में 'सन्नाटा छा गया।' मतलब है–

क) हॉल में खुशी छा गई   ख) हॉल में तंबु छा गया
ग) हॉल में खामोशी छा गई   घ) हॉल में अँधेरा छा गया

ii)   हिन्दी भाषा में स्वर के कितने भेद होते हैं?

क) एक   ख) दो   ग) तीन   घ) चार

iii)   निम्नलिखित में से कौन–सा शब्द भाववाचक संज्ञा नहीं है?

क) लम्बाई   ख) चतुराई
ग) भलाई   घ) मिठाई

iv)   'जो मेहनत करेगा वो अवश्य सफल होगा' वाक्य में 'जो' 'वो' कौन–सा सर्वनाम है?

क) संबंधवाचक   ख) निजवाचक
ग) पुरूषवाचक   घ) निश्चयवाचक

v)   कर्ताकारक का चिन्ह है–

क) को   ख)के लिए   ग) पर   घ) ने

vi)   'अनाज' शब्द है–

क) भाववाचक संज्ञा   ख) व्यक्तिवाचक संज्ञा
ग) जातिवाचक   घ) द्रव्यवाचक संज्ञा

vii)   'रेलगाड़ी ' किस प्रकार के शब्द का उदाहरण है?

क) तत्सम   ख) तद्भव
ग) वर्ण–संकर   घ) देशज

viii)   'पृथ्वी' का एक पर्यायवाची शब्द है–

क) धरती   ख) भार्या   ग) कामिनी   घ) व्योम
क) एक   ख)दो   ग) तीन   घ) चार

ix)   'दो किलो चीनी ले आओ।' वाक्य में 'दो किलो' शब्द कौन–सा विशेषण है?

क) संख्यावाचक विशेषण   ख) परिमाणवाचक विशेषण
ग) सार्वनामिक विशेषण   घ) इनमें से कोई नहीं

x)   जिन शब्दों के एक से अधिक अर्थ हों, उन्हें क्या कहते हैं?

क) अनेकार्थी शब्द   ख) समानार्थी
ग) पर्यायवाची   घ) विलोम

2. **रिक्त स्थानों की पूर्ति करें– (5M)**

i)   मुझे .... कटवाने जाना है। (बॉल ⁄ बाल)

ii)   आपका का क्या .... है? (हॉल ⁄ हाल)

iii)   यह .... बहुत गर्म है। (कॉफ़ी ⁄ काफ़ी)

iv)   सूरज ने ऐसा बल्ला घुमाया कि .... दीवार के पार चली गई। (बॉल ⁄ बाल)

v)   यह खाना बीस बच्चों के लिए .... रहेगा। (कॉफ़ी ⁄ काफ़ी)

3. **निम्न में दिए गए शब्दों का विलोमार्थक (विलोम) शब्द लिखें– (5M)**

i)   स्तुति =

ii)   हर्ष =

iii)   सेवक =

iv)   स्वच्छ =

v)   सचर =

4. **निम्न दिए गए शब्दों का अर्थ लिखें– (5M)**

i)   जीर्ण– शीर्ण –

ii)   प्रण करना –

iii)   आदम्य –

iv)   इंतकाल –

v)   अवाक् –

5. **निम्न में दिए गए मुहावरों का अर्थ लिखें– (5M)**

क) कलेजे पर पत्थर रखना –

ख) कान भरना –

ग) अंग– अंग टूटना –

घ) मुँह छिपाना –

ड) हवा हो जाना –

6. **दीर्घ उत्तरीय प्रश्न (10M)**

i)   कारक के कितने भेद होते हैं? नाम सहित लिखें–

ii)   संधि और समास में उदाहरण सहित अंतर स्पष्ट करें–

7. **अपनी मौसी के विवाह में सम्मिलित होने के लिए प्रार्थना पत्र लिखें– (5M)**

अथवा

जुर्माना माफ़ करवाने के लिए प्रधानाध्यापक को प्रार्थना पत्र लिखें–

8. **निम्नलिखित में किन्हीं एक विषय पर (100-150 शब्दों में) निबंध लिखें– (5M)**

क) दीपावली   ख) होली   ग) बाल दिवस   घ) दुर्गापूजा