ENGLISH

I. Read the given sentences and identify the type of tense being used:
a) My brother lives in Delhi.
b) The girls are playing badminton.
c) Once a week, she washes her clothes.
d) I will meet you at the cafe.
e) She has lived all her life in New York.
f) He has been working on that project for eight months.
g) They will have finished the project by Saturday.
h) My mother drinks tea in morning.
i) The woman helped the man cross the road.
j) I will move to Mumbai soon.

II. Read the following sentences and fill in the correct form of the verb tenses.
a) She _____ (play) badminton every day.
b) They _____ (go) to the library tomorrow.
c) I _____ (am eating/ ate) pasta for dinner last night.
d) We _____ (go/are going) to the part every weekend.
e) The judge sentenced the man to five years in prison because he _____ (rob) a bank.
f) He _____ (not seen) his father since she _____ (start) to work in Reliance two year ago
g) Unless she _____ (sell) more she won't get much money.
h) I _____ (sleep) when the fire broke out.
i) Ramesh _____ (watch) the news on TV everyday and it _____ (help) him with his English.
j) I _____ (not sleep) at all last night. Someone _____ (listen) to music all night.

III. Go through the sentences given below and identify the voice used.
a) Shreya Ghoshal sings beautiful songs.
b) The Sun sets in the West.
c) The boy was being beaten by his teacher.
d) Bucky is helped by Steve.
e) The carpenter is building the desk.
f) The woodcutter cut down the tree.

IV. Change the following sentences from active voice to passive voice.
a) The dog chased the cat.
b) The dog bit the boy.
c) The peon rang the bell.
d) Ram played hockey.
e) Miss Mary teaches us English.
f) Raj caught the ball.

हिंदी

प्रश्न 1. निम्नलिखित प्रश्नों के उत्तर लिखिए-

(क) "प्लास्टिक और हम" से आपको क्या शिक्षा मिली?

(ख) क्या प्लास्टिक हमारे जीवन का आवश्यक हिस्सा है?

(ग) नदी से हमें सबसे बड़ा लाभ क्या मिलता है?"

(घ) गोदावरी को "दक्षिण गंगा" क्यों कहा जाता है?

(ङ) नदियाँ हमारे जीवन के लिए क्यों आवश्यक हैं?

(च) यदि नदियाँ प्रदूषित हों तो जीवन पर क्या असर होगा?

(छ) प्लास्टिक से होने वाली दो हानियाँ बताइए।

(ज) प्लास्टिक के स्थान पर किन वस्तुओं का उपयोग किया जा सकता है?

संस्कृत

प्रश्न 1. अधोलिखितान् गद्यांशान् पठित्वा प्रश्नानाम् उत्तराणि लिखत ।

अस्माकं ग्रामे एकः सुन्दरः उद्यानः अस्ति। तत्र नानाविधानि पुष्पाणि प्रतिदिनं विकसन्ति। उद्यानस्य मध्ये एकः जलकुण्डः अस्ति, यत्र हंसाः क्रीडन्ति। उद्यानस्य पार्श्वे हरिताः वृक्षाः छायां ददन्ति। प्रातःकाले बालकाः तत्र क्रीडन्ति, वृद्धाः च विश्रामं कुर्वन्ति। गृहेभ्यः स्त्रियः पुष्पाणि चिन्वन्ति। पक्षिणः शाखासु उपविश्य गानं कुर्वन्ति। सूर्यस्य प्रकाशः सम्पूर्णं उद्यानं शोभायाम् आनयति। ग्रामवासिनः प्रतिदिनं उद्यानं स्वच्छं कुर्वन्ति। सर्वे जनाः तस्य रक्षणं कुर्वन्ति। स्वच्छोद्यानं सर्वेभ्यः आनन्दं ददाति।

(i) अस्माकं ग्रामे किं अस्ति?

(ii) उद्यानस्य मध्ये किं अस्ति?

(iii) बालकाः प्रातःकाले किं कुर्वन्ति?

(iv) पक्षिणः कुत्र उपविश्य किं कुर्वन्ति?

(v) स्वच्छोद्यानं सर्वेभ्यः किम् ददाति?

प्रश्न 2. पञ्च पशूनां नामानि लिखत।

प्रश्न 3. पञ्च पक्षिणां नामानि लिखत।

प्रश्न 4. निम्न संस्कृत संख्यावाचक शब्दाः लिखत ।

(i) 57

(ii) 66

(iii) 49

(iv) 63

(v) 43

प्रश्न 5. रमा शब्द रूप लिखत।

प्रश्न 6. 'स्था' (तिष्ठ) धातु रूप (लट् लकार, लृट् लकार, लङ् लकार) लिखत।

MATHEMATICS

Q1. Write the reciprocal of the following:
  a) 3/7
  b) -5/9
  c) 1/(-8)

Q2. Simplify:
  a) (3/4) + (5/8)
  b) (-7/9) × (3/14)

Q3. Find the additive inverse of -11/15.

Q4. Represent 2/3 and -1/2 on a number line.

Q5. Simplify:
  a) $2^3 \times 2^4$
  b) $(5^2)^3$
  c) $(10^5 \div 10^2)$

Q6. Express the following numbers in exponential form:
  a) 1,000,000
  b) 125
  c) 1/64

Q7. Evaluate:
  a) $(3^{-2}) \times (3^3)$
  b) $(2^4) \div (2^5)$

Q8. Write the standard form of 4,500,000 and 0.00052.

Q9. Simplify: $(5^2 \times 5^3) \div 5^4$

Q10. The marks obtained by 10 students in a test are: 12, 18, 14, 10, 20, 16, 18, 14, 15, 10. Find the mean marks.

Q11. Find the mode and median of the following data: 4, 6, 2, 8, 6, 9, 6, 3, 5.

Q12. The daily temperatures (°C) for a week are 32, 30, 31, 29, 33, 35, 34. Find the range of the data.

Q13. Find 25% of 240.

Q14. Express the following as percentages:
  a) 3/8
  b) 0.45
  c) 7/20

Q15. Out of 600 students, 420 passed the exam. Find the percentage of students who passed.

Q16. A man invests ₹12,000 at a simple interest rate of 5% per annum for 3 years. Find the total interest and the amount.

SCIENCE

Q1. Classify the following processes into physical or chemical changes.
(a) Beating of aluminium metal to make aluminium foil   (b) Digestion of food
(c) Cutting of a log of wood into pieces   (d) Burning of crackers

Q2. In addition to the formation of new products, what changes do the chemical changes accompany?

Q3. If you leave a piece of iron in the open for a few days, it acquires a film of brownish substance, called rust.
(a) Do you think rust is different from iron?
(b) Can you change rust back into iron by some simple method?
(c) Do you think formation of rust on iron is a chemical change?
(d) Give two other examples of a similar type of change.

Q4. We should eat freshly cut apple. Why?

Q5. Magnesium ribbon bums in air and changes to white substance 'Y. What type of change take place? Express the change in the form of equation

Q6. Sumit wrote a food chain in the following way. The chain is not in the correct order. Help her to write the food chain correctly. Frog → Eagle → Insects → Grass → Snake

Q7. State the consequence when one food chain is disturbed in an ecosystem.

Q8. Forests are called green lungs. Why?

Q9. Y and Z are two types of organism which are found in the forests. Y eats up dead animals while Z breakdown the body of the dead animals into simpler substances.
(a) What is the general name of organism Y?
(b) Write one example of Y type organism.
(c) What is general name of organism Z?
(d) Write one example of Z type organism.

Q10. "You conserve forest, you conserve soil". Do you agree? Justify

Q11. The picture shows the different layers of a forest.

(a) Which is the canopy layer of the forest?

(b) In which layer of the forest are decomposers present?

(c) Which type of plant is found in layer 4 of the forest?

Social Science

A. Fill in the blanks.

1. The third battle of Panipat was fought in 1761 between the Marathas and
_____.
2. _____ became the capital of Shivaji when he established the
Maratha Empire.
3. Murshid Quli Khan founded the state of _____.
4. _____ is the most abundant gas present in the atmosphere.
5. _____ is the layer closest to the surface of the earth.
6. Public hospitals consist of the network of hospitals maintained by the
_____.
7. _____ is a socially constructed idea that prescribes social
and cultural roles to males and females.
8. _____ was introduced to improve female literacy rate of
our country.

B. State whether the following statements are true or false.

1. Aurangzeb drained the royal treasury to conquer the Deccan region.
2. Shivaji's father Shahji Bhonsle was the jagirdar of Raigarh.
3. Ahmad Shah Abdali took the Peacock Throne and the Koh-i-noor back to Iran.
4. Large government hospitals are found in villages.
5. Private health centres are established with the motive of gaining profits.
6. In remote areas of India, medical facilities are easily available to the people.
7. Female infanticide has led to the decline in sex ratio of our country.
8. The female literacy rate is higher than male literacy rate in India.

C. Match column A with column B.

Column A	Column B
1. Nadir Shah	a) Prefixed notions about gender roles
2. Stratosphere	b) chauth and sardeshmukhi
3. Guru Gobind Singh	c) Ideal for aviation
4. Shivaji	d) Koh-i-noor diamond
5. Gender stereotypes	e) Khalsa Movement

C. Answer the questions in brief.

1. Why did the Mughal Empire decline in the eighteenth century?
2. Name the three states that came to power after the decline of the Mughal
Empire.
3. Women are capable to perform only domestic work. Do you agree? Justify your
Answer.
4. Name the five layers of the atmosphere.
5. Which layer of the atmosphere makes wireless communication possible?.
6. What is public healthcare?
7. What is a private hospital?

INFORMATION TECHNOLOGY

A. Multiple Choice Questions

1. Photoshop is mainly used for:
   a) Word processing   b) Image editing   c) Spreadsheet   d) Web browsing

2. The file extension for a Photoshop document is:
   a) .docx   b) .jpg   c) .psd   d) .png

3. The Move Tool is represented by which icon?
   a) A paintbrush   b) A hand   c) Four-headed arrow   d) A magnifying glass

4. Which of the following tools is used to remove unwanted parts of an image?
   a) Brush Tool   b) Crop Tool   c) Lasso Tool   d) Eraser Tool

5. Shortcut key for Undo in Photoshop is:
   a) Ctrl + Z   b) Ctrl + X   c) Ctrl + C   d) Ctrl + P

B. Fill in the Blanks

1. The area where we edit the image in Photoshop is called the _____.

2. _____ Tool is used to fill an area with color.

3. To zoom in on an image, we use the _____ Tool.

4. The Layers panel helps us work with different _____ of an image.

5. The default background color in Photoshop is _____.

C. Short Answer Questions

1. What is Adobe Photoshop? Write any two uses.

2. What is the purpose of the Layers panel?

3. What is the difference between the Eraser Tool and the Brush Tool?

4. Name any two selection tools and their uses.

5. What is the function of the Clone Stamp Tool?

D. Bonus Question

Explain why Photoshop is called a raster-based graphics software.

ARTIFICIAL INTELLIGENCE

Topic: MIT App Inventor Basics and App Development

SECTION A: Multiple Choice Questions

1. What is MIT App Inventor?

a) A mobile phone

b) A web-based platform to create mobile apps

c) A social media app

d) A computer game

2. On the Palette, under which section will you find the Canvas component?

a) Layout

b) Drawing and Animation

c) Media

d) Sensors

3. On the Blocks page, under which item will you find the "If-Then" blocks?

a) Control

b) Logic

c) Math

d) Text

4. Which section of the Designer page displays how your app appears to the user?

a) Palette

b) Viewer

c) Components

d) Properties

5. What is an emulator in MIT App Inventor?

a) A physical mobile device

b) Software that mimics a real device on your computer

c) A type of app component

d) A programming block

SECTION B: Short Answer Questions

6. What are the three key parts of the MIT App Inventor programming environment?

7. Explain the term 'decomposition' with an example related to app development.

8. Name any THREE components available in MIT App Inventor and their purpose.

9. What is debugging and why is it important in app development?

10. List the basic steps to create an app using MIT App Inventor.