

SESSION 2019-20 CLASS-9

SECTION - A (ENGLISH)

1. Judge the right word.

'please' and 'Thank you' are the little courtesies by which we keep the _____ of life oiled and running smoothly.
(A) river (B) garden (C) path (D) machine

2. Fill in the blank with correct modal.

Genius does what is most, and talent does what it _____.
(A) Can (B) Would (C) May (D) Should

3. Three sentences are given below, you have to identify which sentence is a fact and which is an opinion.

I. Grammer is an integral part of written English.

II. Grammer is required for accuracy

III. Grammer is very difficult.

- (A) I - fact II - opinion, III - opinion
(B) I - opinion, II - fact, III - opinion
(C) I - opinion, II - opinion, III - fact
(D) I - fact, II - fact, III - opinion
(E) None of these

4. Give the synonym of the word underlined in the sentence below.

Wired noises came from the haunted house.
(A) Beastly (B) Unpleasant (C) Unnatural
(D) Frightening (E) None of these

5. Fill in the blank as per subject verb agreement.

My grandfather was 95 when he _____.
(A) has died (B) had died (C) died
(D) was dying (E) None of these

6. Below given is a sentence in four parts. One of the parts contains a grammatical error. Find the part.

Zoya thought that (1) / she would pass in the examination (2) / although she didn't answer (3) / most of the questions correctly (4).
(A) 1 (B) 2 (C) 3 (D) 4 (E) None of these

7. Identify the qualitative adjectives in the given sentence.

John takes great pleasure in reading novels.
(A) Novels (B) Great (C) Pleasure (D) Reading
(E) None of these

8. In which one of the following sentences an article is wrongly inserted.

- (A) She is one of the beautiful girls in the class.
(B) An umbrella is a useful thing.
(C) Police are wondering
(D) He was reputed as a honest person
(E) None of these

9. The correct question tag of the following sentence will be.

Will you do this?
(A) Will you? (B) Willn't you? (C) Won't you?
(D) Shouldn't you? (E) None of these

10. Choose the correct spelling of word.

- (A) Believe (B) Beleave (C) Believ (D) Beleeve
(E) None of these

SECTION - B (MATHS)

1. If $x = 47$, then the value of $x + 21$ is:
(A) 47 (B) 298 (C) 322 (D) 428 (E) None of these

2. From the given figure, find out the value of x and y.
(A) $x = 26, y = 19$ (B) $x = 26, y = 29$
(C) $x = 25, y = 20$ (D) $x = 40, y = 25$
(E) None of these

3. What is the remainder when $x + x + x + x + x$ is divided by $x - x$.

- (A) 5x (B) 3x (C) 4x (D) 5x

4. The sides of a quadrilateral in order are 26cm, 27 and 24cm, The angle between the last two sides is a right angle. Find the area of quadrilateral.

- (A) 291.85 cm (B) 375.85 cm
(C) 84 cm (D) 600 15 cm

5. The area of region bounded by $2x + y = 6, 2x - y + 2 = 0$, and x - axis is:

- (A) 4 sq. units (B) 6 sq. units
(C) 8 sq. units (D) 2 sq. units

6. if $\cos O = 1/2$, then $\sin O$ is equal to
(A) 8/7 (B) 8/9 (C) 9/8 (D) 7/8 (E) None of these

7. An airplane leaves an airport and flies due north at a speed of 1000 km/h. At same time, another plane flies due west at a speed of 1200 km/h from the same place. The approximate distance between the two planes after 1.5 hours will be:

- (A) 2400 km (B) 2520 km
(C) 2343 km (D) 2434 km

8. If O is the center of the circle, then measure of QPM in the following figure is:

- (A) 65 (B) 50
(C) 40 (D) 72

9. Three years ago, the mean age of Harison's family of 5 members was 17. A baby having been born, the average age of his family remains same today. The present age of the baby is:

- (A) 1 year (B) 1.5 year (C) 2.5 year (D) 2 year
(E) None of these

10. The volume of the shaded region in the following figure is:

- (A) 8 cm (B) 4 cm (C) 2 cm (D) 12 cm
(E) None of these

SECTION - C (SCIENCE)

1. Choose the isobar from the following.

- (A) C and C (B) U and C
(C) H and C (D) Ar and Ca

2. Humans are classified according to the following hierarchy:

Animelia ---> chordata ---> Mammalia ---> Primates ---> Hominidae ---> Homo ---> Sapiens

Which category is represented by Primate in the above hierarchy?

- (A) Order (B) Genus
(C) Kingdom (D) Family

3. What is the number of water molecules contained in a drop of water weighing 0.12 g?

- (A) 2.007×10 (B) 4.014×10
(C) 2.007×10 (D) 4.014×10

4. Calculate the number of water molecules of chloroform (CHCl₃) weighing 0.0239 g (H = 1, C = 12, Cl = 35.5).

- (A) 0.2046×10 (B) 1.2046×10
(C) 2.2046×10 (D) 3.1046×10

5. A student has three cubes, one is steel cube with 40 g mass and 100 cm³ volume, second is silver cube with 30 g mass and 10 cm³ volume, and third is iron cube with 80 g mass and 100 cm³ volume, compare the cube and find out which one of the following cube has the highest density?

- (A) Steel cube has highest density
(B) Iron cube has highest density
(C) Silver cube has highest density
(D) Steel and silver has same density

6. Which of the following statements correctly described the relationship between the buoyant force and an object in fluid?

- (A) The buoyant force is equal to the volume of the fluid that the object displaces.
(B) The buoyant force is equal to the density of the fluid that the object displaces.
(C) The buoyant force is equal to the volume of the fluid that the object displaces.
(D) The buoyant force is equal to the weight of the fluid that the object displaces.

7. Which one of the following shows that cathode rays are negatively charged particles?

- (A) Cathode rays produce greenish light on striking the wall of discharge tube
(B) Cathode rays cast shadows of the objects placed in their path
(C) Cathode rays move the blades of a paddle wheel placed in their path
(D) Cathode rays are deflected towards the positive plate of an electric field

8. Classify the following materials into elements, compounds and mixtures: Methane, granite, blood, sodium, silver, iron, sugar

- (A) Elements: Sodium and Silver.
Compounds: Methane, Granite, sugar
Mixture: Iron, Blood
(B) Elements: Sodium, Silver, Iron.
Compounds: Methane, sugar
Mixture: Granite, Blood
(C) Elements: Sodium, Silver, Iron
Compounds: Methane, Blood
Mixture: Granite, sugar
(D) Elements: Methane, Silver, Iron
Compounds: , Sodium, sugar
Mixture: Granite, Blood

9. Which one of the following is the acrocentric chromosome?

- (A) A (B) B
(C) C (D) D

10. Which one of the following graphs shows uniform acceleration?

SECTION - D (G.K)

1. Which one of the following are the guidelines for the framing of laws by the government?

- (A) Fundamental rights (B) Fundamental duties
(C) Directive principles of state policy
(D) All of these

2. Election is an integral part of democracy. In India election is held after every five years. Which institution conducts and monitors all the elections in India?

- (A) Parliament (B) Secretariat
(C) Election Commissioner (D) Election Commission

3. What was the status of women in pre revolutionary France?

- (A) They were active citizens (B) They were passive citizens
(C) They can vote to select the government
(D) All of these

4. In which one of the following years the official history of international test cricket began?

- (A) 1874 (B) 1875 (C) 1876 (D) 1877

5. What is the name of the currency of Ireland?

- (A) Euro (B) Pound (C) Dollar (D) Dinar

6. The permanent member members of the united nations Security Council are:

- (A) US, UK, Russia, France and Germany
(B) US, UK, Russia, India and China
(C) US, UK, Pakistan, France and China
(D) US, UK, Russia, France and China

7. Given below the features of a multi purpose river valley project:

This project has been jointly executed by madhya pradesh and Rajasthan. In the 1st stage, the Gandhi sager dam and its 119 MW power station and the kota barrage were completed. the Rana Pratap sager dam with a power house of 172 MW capacity was constructed in the 2nd stage. The 3rd stage comprises the constructed of the jawahar sagar dam and 99 MW power station. with the completion of all the stages, the project will generate 386 MW of power.

Identify the project that has the above mentioned features.

- (A) Bhakra Nangal Project (B) Chambal Valley Project
(C) Damodar valley Project (D) Hirakund Project

8. He was an English scientist who invited the first electric light in 1800. He experimented with electricity and invited an electric battery. He also invited a miner's safety helmet and a process to desalinate sea water. He discovered the elements boron, sodium, aluminium (whose name he later changed to aluminium), and potassium. Who is he?

- (A) Gertrude Belle Elion (B) Thomas Alva edison
(C) Sir Humphry Davy (D) Philo Taylor Farnsworth

9. Which one of the following is a yearly award given by the World cultural Council "as a means of recognition, and as an incentive to scientific and technological research and development", with special consideration for researches which "have brought true benefit and well being to mankind"?

- (A) National Medal of Science
(B) Humboldt Research Award
(C) Nuclear-Free Future Award
(D) State Science and technology Prizes
(E) The Albert Enistine world Award for Science

10. All meyor rivers of India originate from one of the three main watersheds:

1. The Himalaya and the Karakoram ranges.
2. Vindhya and Satpura ranges and Chotanagar Plateau in central India.

3. Sahayadri or Western Ghats in western India

- (A) 1 (B) 2
(C) 3 (D) 1, 2

SECTION - E (MENTAL ABILITY & REASONING)

1. What comes in place of the question mark?

- Mudguard : Cycle :: Physics : ?
(A) Biology (B) Mathematics
(C) Science (D) Chemistry

2. In certain code language '253' means 'books are old'. '546' means 'man is old' and '387' means 'buy good books'. what stands for 'are' in the code?

- (A) 2 (B) 4
(C) 5 (D) 6

3. Which term will replace the question mark in the following series?

- ABD, DGK, HMS, MTB, SBL?
(A) QOL (B) ZKM
(C) TOL (D) QNL

Directions (Que 4 to 5): Study the information given below:

Six children are playing football, namely A, B, C, D, E and F. A and E are brothers. F is the sister of E. C is the only son of A's uncle. B and D are the daughter of the brother of C's father.

4. Ho is C related to F?

- (A) Cousin (B) Brother (C) Son (D) Uncle

5. How many male players are there?

- (A) One (B) Three (C) Four (D) Uncle

Study the information given below : (Que. 6 & 7)

A, B, C, D, E, F, G, H and I are nine houses. C is 2 km east to B. A is 1 km north to B and H is 2 km south to A. G is 1 km west of H while D is 3 km east of G and F is 2 km north to G. I is situated just in the middle of B and C while E is just in middle of H and D.

6. Distance between E and G is:

- (A) 1 km (B) 1.5 km (C) 2 km (D) 5 km

7. Distance between E and I is ?

- (A) 1 km (B) 2 km (C) 3 km (D) 4 km

Directions (Que 8 to 9): In each of the questions given below there are two or three statements, followed by two or three conclusions. you have to take the given statements to be true even to be at variance from commonly known facts. read the carefully conclusions and to decide which of the given conclusions logically follows from the given statements.

8. Statement:

- I. All dogs are cats.
II. All cats are rats.

Conclusion:

- I. All dogs are rats.
II. Some rats are cats.
III. Some cats are dogs.
(A) Only I follows (B) Only II follows
(C) Only III follows (D) All follows

9. Statement:

- I. Some plants are mountains..
II. All plants are rivers.

Conclusion:

- I. All mountains are plants.
II. at least Some mountains are rivers..
(A) Only I follows (B) Only II follows
(C) if either conclusion I or conclusion II
(D) if neither conclusion I nor conclusion II

10. Arrange the following words according to English Dictionary.

1. Banal 2. Banana 3. Banish 4. Bandage 5. Bandit
(A) 1,3,2,4,5 (B) 1,2,4,3,5
(C) 1,2,4,5,3 (D) 1,3,2,5,4