

GLOBAL TALENT SEARCH EXAMINATION

SCIENCE

Class : VI

Max Marks : 80

Time : 11:00 to 12:30 noon

Instructions to Candidates :

01. This question paper has 40 objective questions. In addition to this question paper, you are also given an answer-sheet.
02. Read the instructions carefully for each section before attempting it.
03. For each correct answer **2 marks** will be awarded and there is no negative marking.
04. On the answer-sheet, fill up all the entries carefully in the space provided, **ONLY IN BLOCK CAPITAL LETTERS.**
05. Incomplete / incorrect / carelessly filled information may disqualify your candidature.
06. On the answer-sheet, use **PENCIL / BLUE or BLACK BALL PEN.**
07. No extra sheet will be provided for rough-work. Use the space available in the paper for your rough- work.
08. Use of calculator is not permitted.
09. No student is permitted to leave the examination hall before time is complete.
10. Use of unfair means shall invite cancellation of the test.

Roll No.

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Centre No.

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Male / Female _____

Name of the candidate : (In English only, as you would like it to be printed on the certificate).

Signature of the
invigilator

Signature of
the candidate

AMITY INSTITUTE FOR COMPETITIVE EXAMINATIONS

DELHI CENTRES: • E-25, Defence Colony, New Delhi - 110024. Ph.: 011-24336143/44, 24331000-02.

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EAST DELHI : • Amity International School, Mayur Vihar, Phase-I, Ext., Delhi, Ph.: 011-22710588.

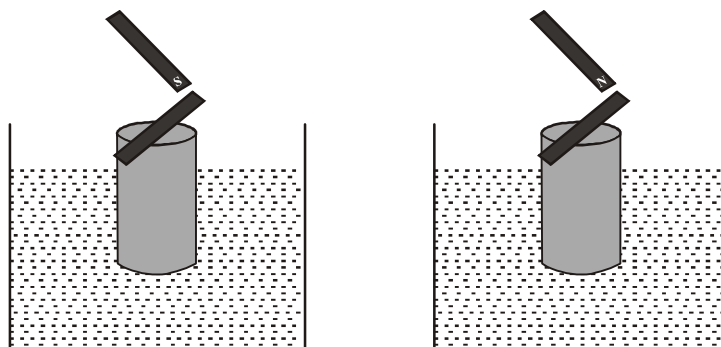
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Each question has four alternatives marked (A), (B), (C) and (D), but only one of these alternatives is the correct answer.

1. A cork remains floating in water when a metallic bar is placed on its surface. Near this metallic bar, one end of a bar magnet is brought (as shown).



Different observations are recorded in *column I* and the possible reasons are given in *column II*. Match properly the observations with the corresponding reasons and tick-mark(✓) the correct answer.

Column I

Column II

- | | |
|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| (a) The cork starts moving towards the magnet | (i) The metallic bar is made of a non-magnetic substance |
| (b) The cork remains unaffected | (ii) S-pole of the magnet is brought near the S-pole of the metallic bar |
| (c) The cork starts rotating in clockwise direction when S-pole of the magnet is brought near it | (iii) S-pole of the magnet is brought near the N-pole of the metallic bar |
| (d) The cork starts rotating in counter clockwise direction when S-pole of the magnet is brought near it | (iv) The metallic bar is made of a magnetic substance |
- (A) (a) - i, (b) - iv, (c) - ii, (d) - iii
- (B) (a) - iv, (b) - i, (c) - iii, (d) - ii
- (C) (a) - iv, (b) - i, (c) - ii, (d) - iii
- (D) (a) - iv, (b) - ii, (c) - iii, (d) - i

2. Match properly the statements given in column I with the statements given in column II and tick-mark(✓) the correct matching.

Column I

Column II

- | | |
|------------------------------------|---------------|
| (a) Making yarn from fibre | (i) weaving |
| (b) Making socks | (ii) spinning |
| (c) Making suitings and cloth | (iii) ginning |
| (d) Making fibre from cotton bolls | (iv) knitting |

- (A) (a) - iii, (b) - iv, (c) - i, (d) - ii
(B) (a) - ii, (b) - i, (c) - iv, (d) - iii
(C) (a) - ii, (b) - iv, (c) - i, (d) - iii
(D) (a) - iii, (b) - iv, (c) - ii, (d) - i

3. Pull out six to eight yarns, approximately 10 cm to 15 cm each, from the given fabric. Twist these to obtain a thick thread of these yarns. Hold one end of this thick thread with a tong and bring the other end over the flame of a candle. If it is found that this thick thread burns but does not shrink or melt while burning, then the fabric from which the yarns are taken is

- | | |
|----------------------|--------------------|
| (A) silken fabric | (B) cotton fabric |
| (C) synthetic fabric | (D) woollen fabric |

4. Petiole, lamina, veins and midrib are associated with

- | | |
|-----------------------|------------------------|
| (A) leaves of a plant | (B) flowers of a plant |
| (C) roots of a plant | (D) stems of a plant |

5. Which one of the following changes can be reversed ?

- (A) Drinking a glass of water
(B) Using soap while taking a bath
(C) Stitching of a shirt from a piece of cloth
(D) Lifting a bucket of water from a well

6. Match the statements of column I and column II and tick-mark(\surd) the correct matching.

Column I

Column II

- | | |
|---------------|-------------------------------------------------------------|
| (a) Switch | (i) the wire in the bulb which gives off light |
| (b) Cell | (ii) this makes the bulb to glow |
| (c) Filament | (iii) no current flows if this is put in the circuit |
| (d) Insulator | (iv) no current will flow if this is not put in the circuit |
| (e) Current | (v) used for making and breaking an electric circuit |

(A) (a) - v, (b) - ii, (c) - i, (d) - iii, (e) - iv

(B) (a) - v, (b) - iv, (c) - ii, (d) - iii, (e) - i

(C) (a) - v, (b) - iv, (c) - i, (d) - iii, (e) - ii

(D) (a) - v, (b) - iv, (c) - i, (d) - ii, (e) - iii

7. The size of the shadow of an opaque body is always smaller (in size), when it is placed

- (A) near a luminous source of same size
- (B) in the sun during day time
- (C) near a luminous source of larger size
- (D) near a luminous source of smaller size

8. Water is constantly being cycled between the oceans, the atmosphere and the land. This is called water cycle. The water cycle is very important process in nature, because this helps sustain life on earth. Which one of the following is *not* associated with water-cycle ?

- | | |
|------------------|--------------------|
| (A) Condensation | (B) Transportation |
| (C) Evaporation | (D) Transpiration |

9. We observe different bodies, moving in different ways. Each different type of motion has been given a different name. Relate the forms of motion given in column I and the names of motion given in column II and tick-mark(✓) the correct relation.

Column I

Column II

- | | |
|------------------------------------------------------------------------------|--------------------------|
| (a) Distance of a point on the moving object remains same from a fixed point | (i) periodic motion |
| (b) Motion of a body, towards or away from a fixed point | (ii) circular motion |
| (c) An object repeats its motion after a fixed interval of time | (iii) rectilinear motion |
| (d) Distance travelled by a body remains same in each fixed interval of time | (iv) vibrational motion |
| (e) Motion of a body along a straight line | (v) uniform motion |
- (A) (a) - ii, (b) - i, (c) - iv, (d) - v, (e) - iii
(B) (a) - ii, (b) - iv, (c) - iii, (d) - v, (e) - i
(C) (a) - ii, (b) - iv, (c) - i, (d) - iii, (e) - v
(D) (a) - ii, (b) - iv, (c) - i, (d) - v, (e) - iii

10. Dietary fibres are also known as roughage. Roughage is mainly provided by plant products in our food. Whole grains and pulses, potatoes, fresh fruits and vegetables are the main sources of roughage. Roughage is very essential part of our food, because

- (A) this helps our body to get rid of undigested food
(B) this along with other nutrients is a good source of 'body-building'
(C) this helps in digesting fats and proteins in our food
(D) this helps in digesting the food we take

11. Which one of the following statements is correctly matched ?

<i>Vitamin/mineral</i>	<i>Deficiency disease/disorder</i>	<i>Symptoms</i>
(A) Iron	Anaemia	Poor vision, loss of vision in darkness (at night)
(B) Vitamin A	Beri-beri	Weak muscles and very little energy to work
(C) Vitamin D	Rickets	Bones become soft and bent
(D) Vitamin C	Scurvy	Weak bones, tooth decay

12. Tick-mark(✓) the *incorrect* statement.

- (A) Oxygen is more pure in the morning than in the other part of the day
- (B) Burning can occur only in the presence of oxygen
- (C) Plants also consume oxygen for respiration
- (D) Water also contains oxygen in it

13. Crush a given item of food and mix water with it to form a thin paste or solution. Put these contents in a test tube. To this add 2 drops of copper sulphate solution and 10 drops of caustic soda solution. Shake the test tube well and keep it on a stand for few minutes. If violet colour appears in the test tube then the given item of food contains

- (A) vitamins
- (B) proteins
- (C) carbohydrates
- (D) fat

14. Tick-mark(✓) the *incorrect* statement

- (A) Jute is obtained from the stem of its plant
- (B) Cotton is obtained from the fruit of its plant
- (C) Wool is obtained from the fur of dead animals
- (D) Silk is obtained from the cocoon of silkworm

18. Match properly the statements of column I and column II and tick-mark(✓) the correct relation.

Column I

Column II

- | | |
|----------|-----------------|
| (a) Bee | (i) egg |
| (b) Dog | (ii) carnivores |
| (c) Cow | (iii) nectar |
| (d) Hen | (iv) herbivore |
| (e) Lion | (v) omnivore |

(A) (a) - iii, (b) - v, (c) - iv, (d) - i, (e) - ii

(B) (a) - iii, (b) - v, (c) - ii, (d) - i, (e) - iv

(C) (a) - iv, (b) - v, (c) - iii, (d) - i, (e) - ii

(D) (a) - iii, (b) - i, (c) - iv, (d) - v, (e) - ii

19. When a body is released from a stationary helicopter and the wind is not blowing, then the body [*tick-mark(✓) the wrong statement*]

- (A) moves down with increasing speed
- (B) moves down with rectilinear motion
- (C) moves down due to the attraction of the earth
- (D) moves down with constant speed

20. Evaporation is the process in which water is converted from liquid state to gaseous state. Which one of the following is *correct* about evaporation ?

- (A) The evaporation of water takes place only in sun light
- (B) Evaporation takes place at all the temperatures of the atmosphere
- (C) Water vapours are present in the atmosphere only during monsoon
- (D) Evaporation of water takes place from the surface of water, but not from the surface of the soil

21. Tick-mark(✓) the statement which is *not* correct.

- (A) Fleece and hair are animal fibres
- (B) On burning, the wool yarn does not shrink and burns without melting. It has a strong odour of burning plastics
- (C) Flax is a plant that gives natural fibre
- (D) Nylon and polyester are not natural fibres

22. Which one of the following changes is *not* desirable ?

- (A) Burning of a candle in a dark room
- (B) Conversion of milk into curd
- (C) Over-ripening of a mango
- (D) Putting fence around a field with flowering plants

23. All the following objects appear to be glowing or shining. Which one of the following does *not* emit its own light ?

- (A) The moon
- (B) A lighted electric bulb
- (C) A star
- (D) The sun

24. In which part of our body, the bones are not joined with *Hinge Joint* ?

- (A) Wrist
- (B) Elbow
- (C) Knee
- (D) Ankle

25. A speed of 36 km per hour is same as a speed of

- (A) 10 m per second
- (B) 20 m per second
- (C) 18 m per second
- (D) 36 m per second

26. Which one of the following clothing material or fabric is not obtained either from plants or from animals ?

- (A) Flax
- (B) Cotton
- (C) Polyester
- (D) Jute

In the following four questions, one member of the group is different from the other three, in some particular way. Find the one which is different from the other three and tick-mark(✓) it.

27. (A) Kilogram

- (B) Second
- (C) Day
- (D) Century

28. (A) Coat

- (B) Shirt
- (C) Socks
- (D) Jacket

29. (A) March

- (B) September
- (C) December
- (D) August

30. (A) Decantation

- (B) Threshing
- (C) Winnowing
- (D) Sieving

31. Relate the articles given in column I and their sources given in column II and tick-mark(√) the correct relation.

Column I

Column II

- | | |
|------------------------------------------------------|------------------------|
| (a) Nectar collected by bees | (i) plants and animals |
| (b) The food we take | (ii) animals |
| (c) Roughage that does not help us in digesting food | (iii) flowers |
| (d) Milk and wool | (iv) plants |
- (A) (a) - iii, (b) - iv, (c) - i, (d) - ii
(B) (a) - iii, (b) - i, (c) - iv, (d) - ii
(C) (a) - iii, (b) - ii, (c) - iv, (d) - i
(D) (a) - iv, (b) - i, (c) - iii, (d) - ii

32. Relate properly the statement of column I with those in column II and tick-mark(√) the correct answer.

Column I

Column II

- | | |
|----------------------------------|--------------------------|
| (a) A small cube of stone | (i) floats in water |
| (b) A small cube of ice | (ii) soluble in water |
| (c) A small cube of copper | (iii) insoluble in water |
| (d) A small amount of pure water | (iv) shining surface |
| (e) A small amount of pure milk | (v) transparent |
- (A) (a) - iii, (b) - i, (c) - v, (d) - iv, (e) - ii
(B) (a) - iii, (b) - i, (c) - iv, (d) - v, (e) - ii
(C) (a) - iii, (b) - i, (c) - iv, (d) - ii, (e) - v
(D) (a) - iii, (b) - iv, (c) - i, (d) - v, (e) - ii

33. Which one of the following statement is *not* correct ?

- (A) It is through respiration that the body finally obtains energy from the food it takes
- (B) The exchange of gases in plants takes place mainly through stems and branches
- (C) Some plants also reproduce through parts other than seeds
- (D) The seeds respire and in that process these give out some heat

34. Camel is the animal of desert where water is not easily available. The body structure of the camel helps it to survive in desert conditions. A camel can live for many days without water. Which one of the following does not help in conserving water in the camel ?
- (A) A camel requires very small water in digesting its food
 - (B) A camel excretes a small amount of urine
 - (C) The dung of a camel is dry
 - (D) A camel does not sweat
35. When you are walking in the sunlight, you observe a dark patch on the ground on one of your sides, where the sunlight does not fall. This dark patch is the shadow of your body. An opaque body does not allow light to pass through it. So when an opaque body is brought near a broader source of light it produces its shadow behind. In nature we observe shadows in the form of eclipses. Solar eclipse occurs due to the
- (A) shadow of the moon on the earth
 - (B) shadow of the earth on the moon
 - (C) shadow of the earth on the sun
 - (D) shadow of the moon on the sun
36. Read the following statements and try to guess about which animal, these statements are true ?
- (i) It has strong teeth for chewing hard plants of the forest
 - (ii) It has long ears to hear the movement of its predator (animal like lion that makes it prey)
 - (iii) The eyes on the sides of its head allow it to look in all directions for danger
 - (iv) Its speed helps it to run away from the predator
- (A) Hare
 - (B) Zebra
 - (C) Mountain goat
 - (D) Deer
37. Which one of the following relations between the (i) part of our body and (ii) joint between the bones in this part of the body, is *not* correct ?
- (A) Fixed joint : head
 - (B) Hinge joint : back bone
 - (C) Pivot joint : neck
 - (D) Ball and socket joint : hip

38. Which one of the following relations of measurement is correct ?

- (A) 100,000 mm = 100 m (B) 10,000 mm = 100 cm
(C) 10 m = 1000 mm (D) 1 km = 10,000 cm

39. Water vapours are always present in the atmosphere. These water vapours are converted from water, mostly by the processes of

- (A) evaporation and boiling
(B) transpiration and boiling
(C) transpiration and condensation
(D) evaporation and transpiration

40. Three bars X, Y and Z are freely suspended. When two different ends of these bars are brought near each other, it is observed that



- (i) ends A and C repel each other
(ii) ends A and D attract each other
(iii) ends A and E attract each other
(iv) ends D and E attract each other

From these observations, we can say that

- (A) end F is N-pole of the magnet
(B) end F is S-pole of the magnet
(C) bar Z is not a magnet
(D) bar Y is not a magnet

ANSWERS CLASS VI (Science)

1	C	2	C	3	B	4	A	5	D
6	C	7	C	8	B	9	D	10	A
11	C	12	A	13	B	14	C	15	B
16	C	17	B	18	A	19	D	20	B
21	B	22	C	23	A	24	A	25	A
26	C	27	A	28	C	29	B	30	A
31	B	32	B	33	B	34	A	35	A
36	D	37	B	38	A	39	D	40	C