

SAMPLE PAPER- 1

Verbal & Non Verbal Reasoning

Q1 .If K denotes ' \times '; B denotes ' \div '; T denotes ' $-$ '; M denotes ' $+$ '

Then $40 B 8 T 6 M 3 K 4 = ?$

(a) - 31

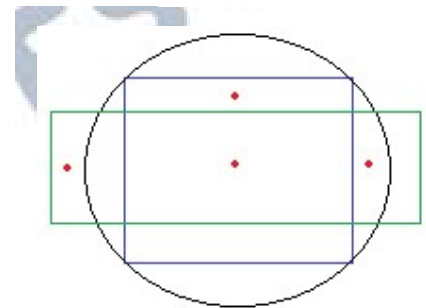
(b) 23

(c) 11

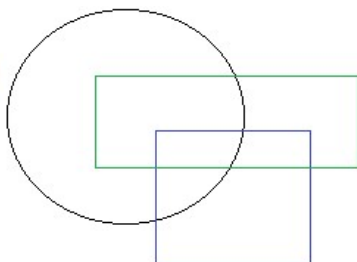
(d) 19

Q2.

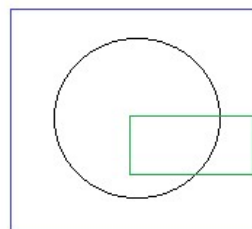
Choose the figure from the options which satisfies the same condition of placement of the dots as in the given figure :



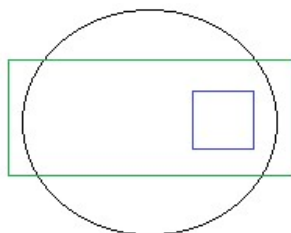
(a)



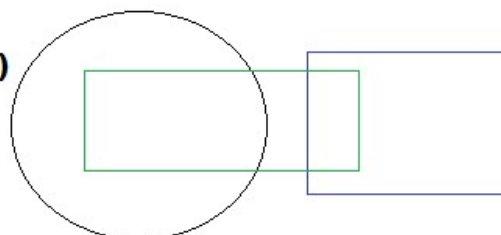
(b)



(c)



(d)



Q3. Select the option which will continue the given series.

A50G , 1306O , Q818W , Y650E

(a) **M218G**

(b) **G218M**

(c) **G245M**

(d) **H245J**

Q4. Find the missing number , if a certain rule is followed either row-wise or column-wise.

5	12	4	8
9	15	3	12
8	20	4	?

(a) 12

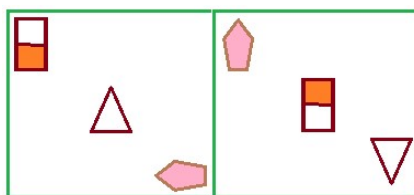
(b) 14

(c) 15

(d) 16

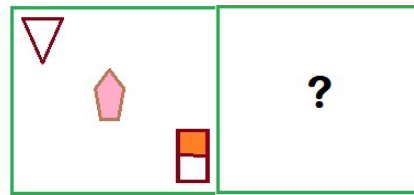
Q5. There is a certain relationship between the figures (1) and (2) .

Establish a similar relationship between figures (3) and (4) by selecting a suitable figure from the options which will replace the (?) in figure (4)



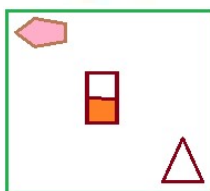
(1)

(2)

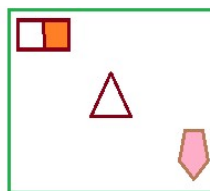


(3)

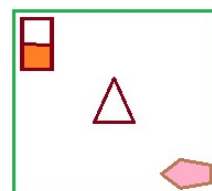
(4)



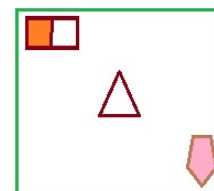
(a)



(b)



(c)



(d)

Case Based Study

Direction :Read the given passage and answer Q6 to Q7



PASSAGE-I :For dead plants (fossils), carbon dating is the generally used technique, where the amount of carbon-14 remaining in the fossil gives a perfect approximation of its age. For a recently dead tree, you can plainly count the number of tree rings. Rings are developed at the rate of one per year, and a count of the rings will straight

away tell you the age of a tree., To calculate the age of a plant, one needs to focus on xylem and phloem. They are the tissues that transport water and nutrients in a plant, thus generating "rings" that grow from the centre outer in the stem or trunk.

Q6."Age of the Tree can be determined from its Woody Stem " -

Select the correct sentence in support of the above statement :

- (a) It is determined from the xylem ring that arises every year .
- (b) It is determined from the pith ring that every year arises .
- (c) It can be determined from Cambium ring.
- (d) It can be determined by the parenchyma of the tree.

Q7. Select the correct sentence ?

- (a) Pith is at centre & cambium at the circumference beneath bark.
- (b) Cambium is at centre & pith at the circumference beneath bark.
- (c) Pith & Cambium both are located at the same place.
- (d) Pith is outer region and cortex is inner region

Multiple Choice Question [MCQ]

Q8. Tendon Connect

- | | |
|---------------------|----------------------|
| (a) Bone to Bone | (b) Muscle to Bone |
| (c) Nerve to Muscle | (d) Muscle to Muscle |

Q9. Haversian canal is found in

- | | |
|--------------------|-------------------------|
| (a) Lymph | (b) mammalian cartilage |
| (c) mammalian bone | (d) Blood |

Q10. Select the incorrect sentence

- (a) Blood has a matrix containing hormones , salts and proteins.
- (b) Two bones are connected by a ligament
- (c) Tendons are non-fibrous tissue and fragile
- (d) Cartilage is a form of connective tissue.

Q11. Which tissue helps to float aquatic plants ?

- | | |
|------------------|------------------|
| (a) Aerenchyma | (b) Sclerenchyma |
| (c) Chlorenchyma | (d) Collenchyma |

Q12. _____ transports product of photosynthesis from the leaves where they are synthesised , to other parts of the plant ?

- | | |
|--------------|-----------|
| (a) Nephrons | (b) Lymph |
| (c) Phloem | (d) Xylem |

Q13. Cambium is an example of :

- | | |
|-----------------------------|--------------------------|
| (a) Simple Permanent Tissue | (b) Lateral Meristem |
| (c) Apical meristem | (d) Intercalary meristem |

Assertion & Reason

The given below Statement in Assertion(A) is followed by a statement of Reason(R) . Make the correct choice of that :

- (a) Assertion(A) and Reason(R) are both True and Reason is the Correct Explanation
- (b) Assertion(A) and Reason(R) are both True but the Reason(R) is not the correct explanation.
- (c) Assertion(A) is Correct but Reason(R) is not Correct.
- (d) Assertion(A) is not Correct but Reason(R) is Correct.

Q14. Assertion : Parenchyma is most abundant tissue of plant

Reason : It is a Simple permanent tissue.

Q15. Assertion: Striated muscle are attached to the bones in different body parts.

Reason: These are under independent voluntary control.

Achiever's Section

Direction : Read the given passage and answer the Q16 to Q18

PASSAGE-I : Refer to the dichotomous key and answer the following questions :

A group of cells that have similar structure and function is called a tissue.

- I. (a) The tissue which is made up of extremely flat ,thin cells forming a delicate lining.**[Go to II]**
(b) The tissue which is arranged in a pattern of layer.
- II. (a) Transportation of substances occur through selectively permeable membrane. **[Go to III]**
(b) This tissue prevents mainly the situation of wear & tear.**[Go to IV]**
- III. This tissue lines the inner lining of the Mouth & Oesophagus .**[A]**
- IV. This tissue forms the epidermis of Skin**[E]**
- V. (a) It is made up of only one type of cell.**[Go to VI]**
(b) It is made up of more than one type of cells.**[Go to VII]**
- VI. Cells of this tissue have air cavity**[B]**
- VII. (a) Tissue conducts water**[C] (xylem)**
(b) Tissue transports the organic nutrients.**[D] (phloem)**

Q16. Find the incorrect statement regarding tissues **A , B , C , D**

- (a) **A , E** are animal tissues, where **B , C** and **D** are Plant Tissue
- (b) **C , D** are plant tissue and together they are called vascular tissue.
- (c) **C , D** are plant tissue and responsible for plants growth and mechanical structure.
- (d) **B** is found in the aquatic plants.

Q17. Find the appropriate & correct matching pair, regarding the location of tissue and its plant Location

- | | |
|----------------------------|----------------------------|
| (a) A – Alveoli , | B – Hydrilla |
| (b) C – Cactus , | D – Sunflower |
| (c) E – Human Brain | D – Lichen |
| (d) B – Kidney | D – All Green Plant |

Q18. Find the appropriate & correct match of pair , regarding the Tissue & function.

- (a) **A** – Layer for support to underlying tissue
E – Protection against germ

- (b) **C**– Water transport , **D** – Translocation of Organic nutrients
- (c) **E**– Controlling Hypertension **D**– Symbiotic relationship
- (d) **E** – Protect mechanical wear tear and abrasion
D – Translocation of Organic nutrients

Direction :Read the given passage and answer the Q19 to Q20

PASSAGE-II :Refer to the dichotomous key and answer the following questions :

- I. (a) Cells of the tissue are loosely spaced and embedded in an intercellular matrix. **[Go to II]**
 (b) The cells of the tissue are embedded with hard matrix. **[Go to III]**
- II. The tissue has the fluid matrix and transports oxygen ,vitamins , nutrients and hormones to all body cells. **[Go to IV]**
- III. Cell of the tissue composed with Calcium & phosphorous & forms skeletal framework. **[A]**
- IV. This tissue removes the CO_2 and other waste from the cells. This type of tissue are two types **[Go to V]**
- V. (a) a part of this tissue is colourless **[B]**
 (b) another part of this tissue has circular , biconcave disc-like and non-nuclei cell. This cell increases the surface area for gaseous exchange. **[C]**

Q19. Find the appropriate & correct match of pair , regarding the Tissue & function.

- (a) **A** – White matter of Brain ; **B** – Axon of Nerve Cell ; **C** – Mitochondria
- (b) **A** – Bone ; **B** – Axon Nerve Cell ; **C** – Golgi Apparatus
- (c) **A** – Blood ; **B** – Bone ; **C** – Lymph
- (d) **A**– Bone ; **B** – Lymph ; **C** – RBC

Q20. Find the correct sentence :

- (a) **A** forms the exoskeleton in human ; **B** – Lymph produces immune cells
- (a) **C** forms the exoskeleton in human ; **A**– Lymph produces immune cells
- (a) **B** forms the exoskeleton in human ; **C** – Lymph produces immune cells
- (a) **A** Protective coating above the body ; **B** – Lymph produces immune cells

KEY :MOCK TEST-01

Verbal & Non Verbal Reasoning

Q1. Answer:(c) 11

Q2. Answer:(a)

Q3. Answer:(b) G218M

Q4. Answer:(a) 12

Q5 Answer:(b)

Case Based Study

Q6. Answer:(a) It determines from the Xylem Ring that every year rises newly.

Q7. Answer:(a) Pith is at centre & Cambium at the Circumference beneath of Bark.

Multiple Choice Question [MCQ]

Q8. Answer (b) Muscle with Bone

Q9. Answer(b) mammalian cartilage

Q10. Answer (c) Tendon's are non-fibrous tissue and fragile

Q11. Answer (a) Aerenchyma

Q12. Answer (d) Xylem

Q13. Answer (b) Lateral Meristem

Assertion & Reason

The given below Statement in Assertion(A) is followed by a statement of Reason(R)
.Make the correct choice of that :

- (a) Assertion(A) and Reason(R) are both True and Reason is the Correct Explanation
(b) Assertion(A) and Reason(R) are both True but the Reason(R) is not the correct explanation.
(c) Assertion(A) is Correct but Reason(R) is not Correct.
(d) Assertion(A) is not Correct but Reason(R) is Correct
- -----

Q14. Answer :

(b) Assertion(A) and Reason(R) are both True but the Reason(R) is not the correct

Q15. Answer:(c) Assertion(A) is Correct but Reason(R) is not Correct.

Achiever's Section

Q16. Answer:(c) **C , D** are Plant Tissue and responsible for plants Growth and mechanical structure.

Q17. Answer:(a) **A** – Alveoli , **B**– Hydrilla

Q18. Answer:(d) **E** –Protect the mechanical wear tear condition ,
D – Translocation of Organic nutrients

Q19. Answer:(d) **A** – Bone ; **B**– Lymph ; **C**– RBC

Q20. Answer:(a) **A** forms the exoskeleton in human ; **B** – Lymph produces immune cells

LEARN