

**SITE- 2011**  
**SCIENCE**  
**CLASS: V**

**1. Buoyant force acts on every object**

- a. On land
- b. In Water
- c. In air
- d. All of the above.

**2. What type of energy transformation takes place in the electric Iron?**

- a. Electrical energy is transformed into heat energy
- b. Electrical energy is transformed into mechanical energy
- c. Mechanical energy is transformed into heat energy
- d. None of the above.

**3. In the case of torch light, what kind of energy transformation takes place?**

- a. Mechanical energy is transformed to heat energy
- b. Electrical energy is transformed to heat energy
- c. Chemical energy is transformed to light energy
- d. None of the above.

**4. An electrician is using a power drill to make a hole in the wall. What form of energy produced is not useful?**

- a. Kinetic Energy
- b. Sound Energy
- c. Electrical Energy
- d. None.



- a. Wedge
- b. Screw
- c. wheel and axle
- d. Lever

**11. This energy is extracted from heat stored inside the earth and is used to generate electricity.**

- a. Wind Energy
- b. Hydropower
- c. Solar Energy
- d. Geothermal Energy

**12. The shape of the shadow depends on**

- a. The shape of the object
- b. The position of the source of light
- c. The size of the source of light
- d. All of the above.

**13. Which of these materials could produce a shadow?**

- a. A clear glass
- b. A clean cellophane paper
- c. Clear Water
- d. A piece of wood.

**14. We cannot see an object when**

- a. It reflects light
- b. It casts a shadow
- c. There is no light

**Which of the given statements are correct?**

- i a only
- ii c only
- iii a & c only
- iv b & c only

**15. Study the following statements**

- i. Moon is a luminous body
- ii An object that does not emit light is called non luminous body
- iii Translucent bodies do not cast shadows



c. Thermosphere

d. Exosphere

**21. Name the chemical used to kill the germs present in water?**

a. Chlorine

b. Bromine

c. Iodine

d. Fluorine

**22. The process of purifying water by first boiling it and then condensing the steam is called .....**

a. Distillation

b. Filtration

c. Decantation

d. Sedimentation

**23. Your weight on the Earth is 30kg. What will be your weight on moon?**

a. 8 kg

b. 30 kg

c. 5 kg

d. 10 kg

**24. .... is a Metamorphic rock**

a. Marble

b. Shale

c. Sandstone

d. Limestone

**25. The metal Aluminum is extracted from its ore called**

a. Hematite

b. Bauxite

c. Pyrite

d. None of these

**26. An iron ball will ..... in water**

a. Sink

b. Float

c. Be partly immersed

**27. .... satellites can detect the launch of missiles**

a. Weather Satellite

b. Navigation Satellite

c. Communication Satellite

d. Military Satellite

**28. Name the first American spacecraft that landed on moon on 20<sup>th</sup> July 1969**

a. Apollo II

b. Apollo I

c. Apollo IV

d. None of these

**29. A volcano that may erupt any time is called**

a. dormant

b. extract

c. active

d. none of these

**30. Combustion is a \_\_\_\_\_ change**

a. Physical

b. Chemical

c. Sometimes physical / Sometimes chemical

**31. The area of the partial darkeness of the shadow is called**

a. Umbra

b. Penumbra

**32. The force of attraction between a comb which is rubbed on the hair and the bits of paper is due to**

a. Magnetic force

b. Gravitational force

c. Electrostatic force

d. Contact force

**33. The food for the germinating baby plant is stored in the -----**

a. Seed coat

b. Embryo

c. Cotyledons

d. Leaves

**34. Which of the following does NOT provide any energy?**

- a. Carbohydrates
- b. Vitamins
- c. Proteins
- d. Fat

**35. Goitre disease is caused by the deficiency of -----**

- a. Iron
- a. Iodine
- c. Calcium
- d. Vitamin A

**36. Swine flu disease is caused by a -----**

- a. Protozoa
- b. Bacteria
- c. Fungi
- d. Virus

**37. ----- breathe through small holes on their body surface called spiracles.**

- a. Insects
- b. Earthworms
- c. Fishes
- d. Frog

**38. -----teeth is well developed in carnivores animals like lions, tigers and jackals.**

- a. Premolars
- b. Molars
- c. Incisors
- d. Canine

**39. Insects like mosquitoes have a long needle-like feeding tube called -----**

- a. Mouth
- b. Beak
- c. Proboscis
- d. Claws.

**40. Muscles are attached to the bones by strong bands of fibers called -----**

- a. Cartilage
- b. Ligaments
- c. Girdles
- d. Tendons

**41. ----- is present at the shoulder region that connects the pectoral girdle and the upper arms.**

- a. Pivot joint
- b. Sliding joint
- c. Hinge joint
- d. Ball-and-socket joint

**42. Olfactory nerves are concerned with the -----**

- a. Sense of smell
  - b. Sense of taste
  - c. Sense of vision
  - d. Sense of hearing
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# SMART INDIA TALENT EXAMINATION-2011

Std: V

MATHEMATICS

Marks: 30marks

Time : 60 min.

## PART – I

1) The predecessor of 100, 000, 000 is \_\_\_\_\_.

- (a) 99999999 (b) 100000001 (c) 10000010 (d) None of these

2) Standard form of  $900000 + 80000 + 300 + 20$  is

- (a) 98320 (b) 980302 (c) 908320 (d) 980320

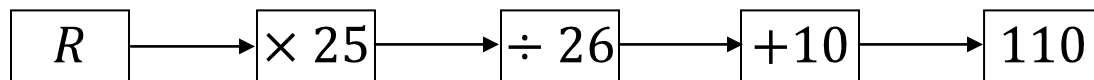
3) Hindu Arabic numeral for *CCCXLVII*

- (a) 357 (b) 347 (c) 367 (d) 387

4) Which of the following is not correctly matched?

- (a) *CM* = 900 (b) *MCM* = 1900  
(c) *IXIXIX* = 310 (d) *MMM* = 3000

5) Find *R* in the given pattern



- (a) 125 (b) 114 (c) 104 (d) 101



13) Which fraction is equal to 3.27?

- (a)  $\frac{327}{10}$       (b)  $\frac{327}{1000}$       (c)  $3\frac{2}{7}$       (d)  $3\frac{27}{100}$

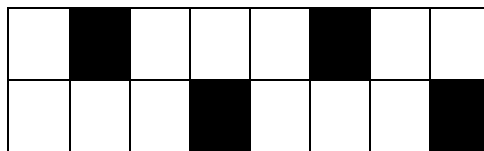
14) What is 14.82 rounded to the nearest tenth?

- (a) 14.0      (b) 14.8      (c) 14.9      (d) 15.0

15) Which is true?

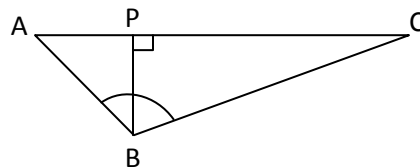
- (a)  $1.462 > 1.6432$       (b)  $1.0769 < 1.7069$   
(c)  $1.5321 > 15.321$       (d)  $1.4441 = 1.4440$

16) The shaded portion of the following figure represents \_\_\_\_\_ of the figure



- (a) 0.25      (b) 0.5      (c) 0.15      (d) 0.4

17) From the figure

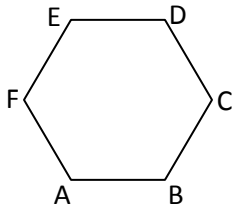


- (a) Name the obtuse angle \_\_\_\_\_  
(b) The line segment perpendicular to AC \_\_\_\_\_

(c) Name an acute angle \_\_\_\_\_

(d) Name a set of collinear points \_\_\_\_\_

**18)**



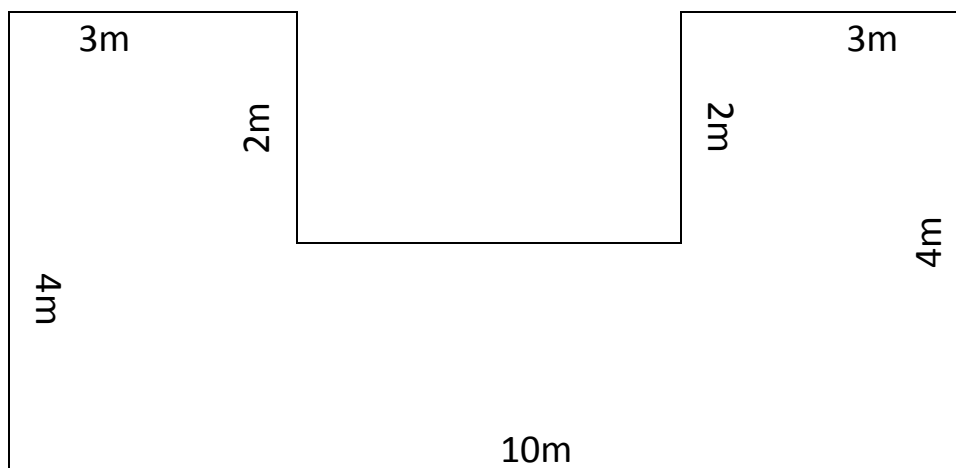
**Sum of angles in the given polygon is**

- (a)  $360^\circ$       (b)  $520^\circ$       (c)  $1080^\circ$       (d)  $1188^\circ$

**19) The radius of a circle is \_\_\_\_\_ if its diameter is  $11\text{cm}$**

- (a)  $22\text{cm}$       (b)  $10\text{cm}$       (c)  $5.5\text{cm}$       (d)  $4.5\text{cm}$

**20) Find the perimeter of the given figure**



- (a)  $28\text{m}$       (b)  $30\text{m}$       (c)  $32\text{m}$       (d)  $34\text{m}$

21) Area of a square is  $121\text{cm}^2$ . Its side is

- (a)  $30.25\text{cm}$       (b)  $11\text{cm}$       (c)  $484\text{cm}^2$       (d)  $242\text{cm}$

22) The area of a rectangle is  $240\text{m}^2$ . The length is  $16\text{m}$  then the breadth is \_\_\_\_\_

- (a)  $16\text{m}$       (b)  $15\text{m}$       (c)  $14\text{m}$       (d)  $12.5\text{m}$


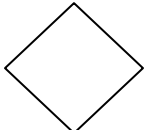


23) The area of a square is  $81\text{m}^2$ . Then its volume is \_\_\_\_\_

- (a)  $27\text{m}^3$       (b)  $72\text{m}^3$       (c)  $729\text{m}^3$       (d)  $324\text{m}^3$

24) When it is  $2.40\text{pm}$  in the clock, what kind of angle is formed by the hands of a clock?

- (a) *acute angle*      (b) *obtuse angle*  
(c) *Right angle*      (d) *Straight angle*

25) Which of the following are not symmetric figures

- (a)       (b)       (c)       (d) 

26) Which is incorrect?

- (a) A line segment has two end points

- (b) A ray cannot be extended in one direction
- (c) A line can be extended in both directions
- (d) There are infinite number of points in a line

**27) 9, 944 litres of petrol was poured into 8 cans equally. Then the quantity of oil in each can is**

- (a) 1243 litres. (b) 2413 litres (c) 1234 litres (d) 2143 litres

**28) Express  $4\frac{1}{3}$  hours in minutes**

- (a) 220 minutes (b) 240 minutes  
(c) 260 minutes (d) 280 minutes

**29) The value of 80% of 440 kilograms is**

- (a) 50.5 kg (b) 35.2 kg (c) 352 g (d) 3520g

**30) What percent of 4 litres is 600ml?**

- (a) 15% (b) 50% (c) 60% (d) 72.5%

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