

# MODEL TEST PAPER - 1

## FOR

### COMMON ENTRANCE EXAMINATION (SOLDIER TRADESMAN VIII STD)

**Time: 1 Hour**

**Maximum Marks: 100**

**Pass Marks : 32**

#### Part – I GENERAL KNOWLEDGE

**Choose the correct answer:**

1. Which country won the maximum number of medals in 2008 Olympics ? (Ans B)
  - United state of America
  - China
  - Russia
  - Great Britain
2. Green revolution in India has been successful in case of : (Ans A)
  - (a) Wheat (b) Sugarcane
  - (c) Rice (d) Mustard
3. The term "Apartheid" is referred to : (Ans A)
  - (a) Racial discrimination (b) Religious discrimination
  - (c) Linguistic discrimination (d) Political discrimination
4. "Macbeth" is a famous drama written by which author ? (Ans B)
  - (a) Tolstoy (b) Shakespeare
  - (c) Hemmingway (d) None of these
5. Which of the following rivers originates from "Amarkantak" ? (Ans D)
  - Sone (b) Godavari
  - (c) Mahanadi (d) Narmada
6. Which is the largest man-made lake ? (Ans D)
  - (a) Wular (b) Chilka
  - (c) Udai Sagar (d) Govind Sagar
7. What is the duration of 'Zero Hour' in Lok Sabha ? (Ans B)
  - (a) 2 Hours (b) 1 Hour
  - (c) Half an hour (d) None of these
8. The UNO came into existence in the year : (Ans B)
  - (a) 1942 (b) 1945
  - (c) 1947 (d) 1950
9. The name "Dakshin Gangotri" is associated with which of the following ? (Ans C)
  - (a) Rameshwaram (b) Kanyakumari
  - (c) Antarctica (d) None of these
10. India is not a member of which of the following ? (Ans A)
  - (a) ASEAN (b) SAARC

- (c) NAM (d) None of these
11. Which is the longest river in the world ? (Ans C)  
 (a) Amazon (b) Volga  
 (c) Nile (d) None of these
12. What is the name of Light combat Aircraft developed by India indigenously ? (Ans D)  
 (a) Brahmos (b) Chetak  
 (c) Astra (d) Tejas
13. Lothal is a historical site of : (Ans C)  
 (a) Rigvedic age (b) Iron age  
 (c) Indus Valley age (d) Gupta age
14. What is the currency of Australia ? (Ans A)  
 (a) Pound (b) Euro  
 (c) Rupee (d) None of these
15. Who among the following is not a receipt of Bharat Ratna ? (Ans D)  
 • Rajiv Gandhi (b) JRD Tata  
 (c) Mother Teresa (d) None of these
16. The largest desert in the world is : (Ans B)  
 (a) Kalahari (b) Sahara  
 (c) Atacama (d) None of these
17. Santosh trophy is associated with : (Ans C)  
 (a) Volleyball (b) Cricket  
 (c) Football (d) Polo
18. Who was the first President to be elected unopposed ? (Ans C)  
 (a) VV Giri (b) Neelam Sanjeev Reddy  
 (c) Dr. Rajendra Prasad (d) None of these
19. Mysore is famous for : (Ans A)  
 (a) Silk (b) Jute  
 (c) Grapes (d) Zinc
20. Who was the first president of the united States of America ? (Ans A)  
 (a) George Washington (b) J F Kenedy  
 (c) Abraham Lincoln (d) None of these

### GENERAL SCIENCE

**Choose the correct answer:**

1. The nitrogen in urea is present in the form of (Ans B)  
 (a) Ammonium (b) Nitrate  
 (c) Nitrite (d) Amide
2. Pulse corps can fix atmospheric nitrogen because of (Ans A)  
 (a) root nodules (b) deep roots

- (c) Aerial roots (d) Root hairs
3. Gobar gas contain mainly (Ans A)
- (a) Methane (b) Carbon dioxide  
(c) Butane (d) Carbon monoxide
4. How many bones are there in human body? (Ans C)
- (a) 180 (b) 198  
(c) 206 (d) 210
5. Mala – D, a female contraceptive prevents (Ans B)
- (a) Ovulation (b) Fertilization  
(c) Entry of egg into the oviduct (d) Implantation of the fertilized egg
6. Cooking oil can be converted into vegetables ghee by the process of (Ans A)
- (a) Oxidation (b) Hydrogenation  
(c) Distillation (d) Crystallization
7. Rusting of iron involves (Ans A)
- (a) Oxidation (b) Reduction  
(c) Decomposition (d) displacement
8. Nuclear fission is caused by the impact of (Ans C)
- (a) Proton (b) Electron  
(c) Neutron (d) None of these
9. Hardware is related to (Ans B)
- (a) Calculator (b) Computers  
(c) Acids (d) Heavy metals
10. Pearls are formed inside (Ans B)
- (a) Squids (b) Oysters  
(c) Snails (d) Molluscs
11. Which of the following is a short tailed rodent used in scientific experiment? (Ans C)
- (a) Rat (b) Rabbit  
(c) Guinea pig (d) Squirrel
12. The part of cinchona plant which yields quinine is (Ans D)
- (a) Root (b) leaf  
(c) Flower (d) Bark

13. The normal temperature of human body is (Ans A)
- (a) 98.6F (b) 99.4F  
(c) 100F (d) 97 F
14. Which is a good conductor of electricity (Ans A)
- (a) Aluminum (b) glass  
(c) wood (d) cement
15. The formula for kinetic energy is (Ans B)
- (a) HCL (b)  $\frac{1}{2} mv^2$   
(c) mgh (d)  $\frac{1}{4} mv^2$

**Part – III**  
**MATHEMATICS**

**Choose the correct answer:**

36. 5, 25, 6, 36, 7, \_\_\_\_, 8, 64 (Ans D)
- (a) 40 (b) 42  
(c) 45 (d) 49
37. Solve  $x-3=5$  (Ans B)
- (a) 5 (b) 8  
(c) 9 (d) 11
38. Rahul purchased a car for Rs 3,00,000. He sold the car after one year for Rs 2,50,000,. Calculate the profit and loss in percentage. (Ans C)
- (a) 10% (b) 15%  
(c) 20% (d) 25%
39. Ram scored 45 marks out of 50 marks in a exam. What is the percentage ? (Ans C)
- 70% (b) 80%  
(c)90% (d) None of these
40. If  $a=2$ ,  $b=4$ ,  $c=-1$ , find the value of  $a^2-3bc+4ac$  ? (Ans C)
- (a) 2 (b) 4  
(c) 8 (d) 10
41. Solve  $2x = x +4$  (Ans A)
- (a) 4 (b) 5  
(c) 6 (d) 7
42. A rectangle is 12 cm and 8 cm. Find the perimeter ? (Ans C)

- (a) 10 cm
- (c) 40 cm

- (b) 20 cm
- (d) 50 cm

43. A rectangle has a perimeter of 50 cm and width of 10 cm. Find the length. (Ans C)

- (a) 5 cm
- (c) 15 cm

- (b) 10 cm
- (d) 20 cm

44. Solve  $254x + 309y = -55$   
 $309x + 254y = 55$

(Ans A)

- (a) 1, -1
- (c) 3, -5

- (b) 2, -3
- (d) 6, 7

45. 40% of 200 = ?

(Ans A)

- (a) 80
- (c) 100

- (b) 90
- (d) None of these

46. 3, 7, 12, 18, \_\_\_\_, 33

(Ans C)

- (a) 22
- (c) 25

- (b) 24
- (d) 28

47. There are 300 eggs in a truck. 20% eggs are rotten. How many eggs are in good condition in the truck ?

(Ans D)

- (a) 100
- (c) 300

- (b) 200
- (d) 240

48. Which is the smallest number

(Ans C)

- (a) 5
- (c) -5

- (b) 1
- (d) 0

49.  $\frac{1}{2} + \frac{1}{3}$

(Ans D)

- (a)  $\frac{1}{6}$
- (c)  $\frac{2}{6}$

- (b)  $\frac{2}{5}$
- (d)  $\frac{5}{6}$

50. 5% of 150 ?

(Ans C)

- (a) 10
- (c) 7.5

- (b) 15
- (d) 10.5