



# SUCCESS

## TALENT REWARD TEST

Time Alloted : 90 Min.

Maximum Marks : 180

❖ Please read the instructions carefully. You are allotted 5 minutes specilly for this purpose.

### :: INSTRUCTIONS ::

01. This booklet is your question paper, contains 50 questions.
02. There are five parts in the question paper A, B, C, D and E consisting of Mathematics, Physics, Chemistry, Biology & Challenger Section having 10 questions in each part.
03. Each question in section A, B, C & D is of 3 marks & for section E of 6 marks.
04. **There is no negative marking in any case.**
05. There is only one correct response for each question. Filling up more than one response in any question will be treated as wrong response.
06. Use Blue /Black Ball Point Pen only for writing particulars/ marking responses on the Answer sheet. **Use of pencil is strictly prohibited.**
07. No candidate is allowed to carry any textual material, printed or written bits of papers, pager, mobile phone, any electronic device, etc. except the Hall Ticket inside the examination hall/ room.
08. On completion of the test, the candidate must hand over the Answer Sheet to the invigilator, on duty in the Room/Hall.

Your Name : -----

Registration No. :

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## QUESTION PAPER CODE - 08090A

(You must write this code on your OMR Sheet)

*Dear student .....*

*Ready for the test ? Take a deep breath and relax. Don't forget to read the questions very carefully. Some questions that look tough, will be quite easy after you have read them properly. Do not spend too much time on any question. Go to the next question and later come back to the ones you felt were tough. Be cool, give your best and have fun.*

**Good luck!**

**(Section-'A' (Maths))**

- If  $F=6$ ,  $E=12$ , for a cube, then find the value of  $V$  Where  $F$ ,  $E$  &  $V$  related to Euler's formula :  
(a) 4 (b) 8  
(c) 11 (d) 18
- If a die is tossed three times, then total number of outcomes is :  
(a) 6 (b) 96  
(c) 216 (d) None
- The base of a triangle is 16 cm and height is 12 cm. The area of the triangle is :  
(a)  $80 \text{ cm}^2$  (b)  $100 \text{ cm}^2$   
(c)  $96 \text{ cm}^2$  (d) None
- A Cylindrical tank has a capacity of  $5632 \text{ m}^3$ . If the diameter of its base is 16 cm its depth is :  
(a) 28 cm (b) .28 m  
(c) 24 m (d) both a & b
- Volume of cube of side length 5 cm is :  
(a)  $25 \text{ cm}^3$  (b)  $125 \text{ cm}^3$   
(c)  $500 \text{ cm}^3$  (d)  $200 \text{ cm}^3$ .
- If 35% of the people residing in a locality are sikhs then the central angle of the sector representing the sikhs community in the pie charts would be :  
(a)  $108^\circ$  (b)  $115^\circ$   
(c)  $126^\circ$  (d)  $135^\circ$
- If the diameter of cylinder is 14 cm then its radius is equal to :  
(a) 7 cm (b) 28 cm  
(c) 42 cm (d) 88 cm

- From a pack of 52 cards one card is drawn at random then find the probability of getting face card :

(a)  $\frac{1}{4}$  (b)  $\frac{1}{52}$  (c)  $\frac{1}{26}$  (d)  $\frac{3}{13}$

- Equation of  $x$ -axis is :

(a)  $x = 0$  (b)  $y = 0$

(c)  $x = y = 0$  (d) All

- A cube having :

(a) 6 faces (b) 8 vertices

(c) 12 edges (d) All

**(Section-'B' (Physics))**

- The times take by the Sun light in reaching the earth is:  
(a) 8 minute 20 S (b) 9 minute 20 S  
(c) 10 minute 20 S (d) 11 minute 20 S
- The bending of a light ray travelling from one medium to another is called :  
(a) reflection of light (b) scattering of light  
(c) dispresion of light (d) refraction of light
- Cathods has ..... charges :  
(a) Negative (b) Positive (c) Both (d) N.O.T.
- Light year is a unit of :  
(a) speed (b) time (c) Velocity (d) None
- The braille system a method to read and write was invented by :  
(a) Sir Issac Newton (b) Louis Braille  
(c) Decon (d) John Braille
- The spliting of white light in to its constituent colours is called :  
(a) reflection (b) scattering  
(c) dispresion (d) image formation

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STUENTS GET CGPA 10, HEARTLY VERY-VERY THANKS YOU...



17. The star nearest to the earth other than the sun is :  
 (a) Rigel (b) Sirius  
 (c) Sun (d) Proxima Centauri
18. Green house effect is related to :  
 (a) global warming (b) farm  
 (c) kitchen garden (d) decrease  $\text{CO}_2$
19. Sun is a source of light :  
 (a) Natural (b) Primary  
 (c) Both (d) N.O.T.
20. The space between the eye lens and retina is filled with a jelly like transparent substance is called :  
 (a) Fovea (b) Vitreous humours  
 (c) Retina (d) Pupils

### (Section-'C' (Chemistry))

21. Biodegradable pollutants are :  
 (a) DDT (b) Benzene hexachloride  
 (c) Municipal Sewage (d) Plastic bottles
22. Ozone layer is destroyed by :  
 (a)  $\text{CO}_2$  (b)  $\text{O}_3$  (c) CFC (d)  $\text{O}_2$
23. Major pollutant of jet plane emission is :  
 (a) Carbon tetrachloride (b) Co  
 (c)  $\text{SO}_2$  (d) Fluorocarbon
24. Number of electrons present in the Nucleus of Sodium atom (atomic No. 11) :  
 (a) 11 (b) 12 (c) 13 (d) None
25. Fog is a mixture of :  
 (a) water & Vapour (b) Oxygen and Nitrogen  
 (c) Both a & b (d) N. O. T

26. Formula of Hydrogen peroxide is :  
 (a)  $\text{H}_2\text{O}$  (b)  $\text{H}_2\text{O}_2$   
 (c) HO (d)  $\text{HO}_2$
27. Atomic Number of Aluminium :  
 (a) 11 (b) 12 (c) 13 (d) 14
28. Formula of Carbon dioxide is :  
 (a)  $\text{CO}_2$  (b) CO  
 (c)  $\text{C}_2\text{O}$  (d)  $\text{C}_2\text{O}_2$
29. Plastics is :  
 (a) Primary pollutants (b) Secondary pollutants  
 (c) Both (d) N.O.T.
30. Charge on Neutron is :  
 (a) Positive (b) Negative  
 (c) Both (d) N.O.T.

### (Section-'D' (Biology))

31. In human beings, fertilisation takes place in :  
 (a) distal part of oviduct (b) proximal part of oviduct  
 (c) uterus (d) vagina
32. A tadpole develops into an adult frog by the process of :  
 (a) Fertilisation (b) Metamorphosis  
 (c) Embedding (d) Budding
33. Internal fertilisation occurs :  
 (a) in female body (b) outside female body  
 (c) in male body (d) outside male body
34. The number of Nucleus present in a zygote is :  
 (a) One (b) Two  
 (c) Four (d) Nine
35. Endometrium is the lining of :  
 (a) Vagina (b) Uterus  
 (c) Fallopian tube (d) Ovary

**::Space for Rough Work::**

36. The number of Chromosomes present in human being:  
(a) 44 (b) 45 (c) 46 (d) 48
37. Which combination of sex chromosomes is present in a female human being :  
(a) XX (b) YY (c) XY (d) XO
38. Pituitary gland is :  
(a) Sexual gland (b) Growth hormone  
(c) Both (d) N.O.T.
39. From ovary of human female is termed:  
(a) implantion (b) gestation  
(c) ovulation (d) parturition
40. Secretions of endocrine glands are called :  
(a) enzymes (b) hormones  
(c) saliva (d) sweat
- (Section-'E' (Challenger))**
41. A cup of milk contains 3 parts pure milk and 1 part water. How much of the mixture must be removed & replaced by water to get mixture half milk & half water.  
(a) 1/2 (b) 1/4 (c) 1/6 (d) None
42. S I unit of force is :  
(a) Dyne (b) N-m  
(c) Kg m /s<sup>2</sup> (d) None
43. If  $x = \frac{\sqrt{3} + \sqrt{2}}{\sqrt{3} - \sqrt{2}}$  and  $y = 1$ , the value of  $\frac{x-y}{x-3y}$  is:  
(a)  $\frac{\sqrt{6} + 4}{5}$  (b)  $\frac{5}{\sqrt{6} - 4}$   
(c)  $\frac{5}{\sqrt{6} + 4}$  (d)  $\frac{\sqrt{6} - 4}{5}$
44. Number of diagonal of hexagon is :  
(a) 8 (b) 9  
(c) 7 (d) 6
45. The sharp pain caused by the sting of an ant is:  
(a) Malic acid (b) Sulphuric acid  
(c) Lactic acid (d) None
46. Soft drinks contain  
(a) Acetic acid (b) tartaric acid  
(c) nitric acid (d) None
47. The sum of all angles of a quadrilateral is :  
(a) 240° (b) 180°  
(c) 360° (d) 90°
48. The energy produced by 1 g of carbohydrate is :  
(a) 4.8 cal (b) 4.2 Kcal  
(c) 9 joules (d) 9.2 Kcal
49. A matter which optical density is more but mass density is less than water .  
(a) Alcohol (b) Kerosene oil  
(c) Turpentine oil (d) Mustard oil
50. When an object moves towards a concave lens the size of the image :-  
(a) decreases (b) increases  
(c) remain same  
(d) First decreases then increase

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**The End**


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**Notice**
**S.T.R.T. Result on 10th Mar. 2017 At 3:00 PM**

- \* Receive the Result Card & Scholarship Terms & Conditions on 10<sup>th</sup> -Mar.-2017 after 3:00 PM & before 6:00PM
- \* For Result Phone Calls Facilities NOT Available.

**::Space for Rough Work::**