

INTEL

BRIDGE COURSE

SCHOLARSHIP TEST



INTEL INSTITUTE (P) Ltd.
INTEL SCHOOL OF COMPETITIVE EXAMS, ISCE
Bagbazar, Kathmandu, Ph: 01-4243944/4249090
E-mail: info@intelinstitute.com
www.intelinstitute.com

Full Marks: (100×1) = 100

General Science

1. Dimension of which are same?
 - a) Work and moment of force
 - b) Torque and force
 - c) Velocity and velocity gradient
 - d) All

2. What is the maximum magnitude of $(\vec{A} - \vec{B})$?
 - a) $A + B$
 - b) $A - B$
 - c) $\sqrt{A^2 + B^2}$
 - d) $\sqrt{A^2 - B^2}$

3. The slope of velocity-time graph gives:
 - a) Acceleration
 - b) Displacement
 - c) Uniform speed
 - d) Stationary object

4. A person on a moving train throws upwards a coin, and if it falls behind him, then train is:
 - a) Accelerating
 - b) Decelerating
 - c) Moving with constant velocity
 - d) Any of the above

5. If the external force applied is zero, then which of the following is conserved?
 - a) Linear momentum
 - b) Angular momentum
 - c) Torque
 - d) Time period

6. A 5kg stone falls from height of 100m and penetrates 2m in a layer of sand. The force applied by ground is:
 - a) 2500 N
 - b) 1500 N
 - c) 1000 N
 - d) 3000 N

7. A body 2 kg is accelerated from zero to 72 km/hr. The work done on the body is:
 - a) 400 J
 - b) 200 J
 - c) 250 J
 - d) 100 J

8. At what height from earth, g becomes $g/2$?
 - a) $R/2$
 - b) $0.414R$

- c) C-14
d) O-16
26. Muriatic acid is:
a) Conc. H_2SO_4
b) Conc. HCl
c) $\text{Mg}(\text{OH})_2$
d) H_2S
27. Sodium is kept (stored) under:
a) Water
b) Kerosene
c) Alcohol
d) Cotton
28. Rate of diffusion of a gas is:
a) Directly proportional to its density
b) Directly proportional to its molecular mass
c) Directly proportional to square of its molecular mass
d) Inversely proportional to the square root of its molecular mass
29. Bakelite is made up of:
a) Toulene and formalin
b) Alcohol and formalin
c) Carbohic acid and alcohol
d) Carbohic acid and formalin
30. When alkanes such as ethane, methane are burnt the product is:
a) NO_2
b) CO_2
c) SO_2
d) P_2O_5
31. Centromere is a part of:
a) Chromosome
b) Centriole
c) Lysosome
d) Ribosome
32. The site for protein synthesis is:
a) Golgi body
b) Ribosome
c) ER
d) Mitochondria
33. Chiasma formation occurs during:
a) Leplotene
b) Diplotene
c) Pachytene
d) Zygotene
34. Crossing over occurs during:
a) Fertilization
b) Mitosis

- c) Meiosis
d) Amitosis
35. Which of the following is not an autotroph?
a) Lyano bacteria
b) Fern
c) Mushroom
d) Pinus
36. Phycology is the study of:
a) Algae
b) Fungi
c) Bacteria
d) All the above
37. Plants lacking seed and vascular system but forming spores and embryo are:
a) Bryophytes
b) Pleridophytes
c) Thallophtyes
d) Gymnosperm
38. Frord is a term given to leaves of:
a) A moss
b) A fern
c) A coniter
d) Angiosperm
39. Which is most stable ecosystem?
a) Mountain
b) Desert
c) Forest
d) Ocean
40. Ozone depleting power is maximum for:
a) W rays
b) CFCs
c) NX_3
d) CO_2
41. Charles Darwin's theory of evolution is based on:
a) Environment
b) Mutation
c) Chromosome pairing
d) Natural selection
42. Paramecium moves by:
a) Cilia
b) Flagella
c) Pseudophodha
d) None
43. Radial symmetry is found in:
a) Porifera
b) Coelenterate

90. Air pollution almost every major city in the world.
a) that now afflicts b) if now afflicts
c) now afflicts d) what now afflicts
91. Correct antonym for the word **audacious** is:
a) Venture b) Daring
c) Cowardly d) Obvious
92. We are accustomed doing hard work.
a) in b) of
c) to d) with
93. It is time you your face.
a) wash b) washed
c) would wash d) will wash
94. It is fourteen years since I him.
a) seen b) see
c) saw d) have seen
95. We must keep one's head while dealing with a complicated problem. The meaning of underlined idiom in the given sentence is:
a) To be agile and active b) To keep calm
c) To think coherently d) Start a fight

In the following passage there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, four words are suggested, one of which fits the blank appropriately. Find out the appropriate words.

In human life, there's always a feeling of want. It is this which makes man (96) Man yearns for things which he cannot get and feels sad looking back upon the past and looking forward (97) future. This preoccupation with the past and future does not

allow man to live (98) in the present. Thus there's always a pain in man's laughter, always a sense of (99)in the moment of enjoyments. That's why the poetry of man is the poetry of sorrow. 'Our sweetest songs are those that tell of (100) thoughts', has been rightly said.

96. a) sad b) disappointed c) unhappy d) mundane
97. a) into b) to c) the d) for
98. a) carelessly b) blissfully c) happily d) honorably
99. a) want b) loss c) fulfillment d) scarcity
100. a) saddest b) loftiest c) happiest d) sorrowful

