



UNITED
UNIVERSITY

ENGINEERING DIPLOMA ADMISSION TEST

INSTRUCTIONS

- The Entrance Test will be of 60 mins.
- The booklet has three Sections

PHYSICS	10 Questions	(10X1= 10)
MATHEMATICS	5 Questions	(5X1= 5)
ENGLISH	15 Questions	(15 X 1 = 15)
GENERAL KNOWLEDGE	10 Questions	(10 X 1 = 10)
APTITUDE REASONING	10 Questions	(10 X 1 = 10)
- All questions carry equal marks.
- For each correct answer 1 mark will be awarded. There is no negative marking.
- Answer to be given by ticking the correct option.
- Use ball pen or dot pen only.
- All the rough work should be done on the space provided in the booklet.

MM- 50

Time- 60 Mins

Details of the candidate

Name

Father's Name

Course Applied for

PHYSICS

1. Plants receive their nutrients mainly from

- (a) Chlorophyll
- (b) Atmosphere
- (c) Light
- (d) soil

2. Photosynthesis generally takes place in which parts of the plant?

- (a) Leaf and other chloroplast bearing parts
- (b) stem and leaf
- (c) Roots and chloroplast bearing parts
- (d) Bark and leaf

3. Our skin, when exposed to excess sunlight, becomes dark. This is because our skin pigments called

- (a) flavoxanthin
- (b) melanin
- (c) carotene
- (d) Xanthophyll

4. A man weighing 65 kg jumps from a 100 ft high building with a load of 35 kg What will be the load experienced by him?

- (a) 20 kg
- (b) 100 kg
- (c) 200 kg
- (d) Zero kg

5. In the visible spectrum, the colour having the shortest wavelength is –

- (a) Green
- (b) Red
- (c) Violet
- (d) Blue

6. Which of the following is a semiconductor?

- (a) Silver
- (b) Glass
- (c) Copper
- (d) Silicon

7. The weight of an object is due to -

- (a) the net force acting on it
- (b) the total of all forces acting on it irrespective of their directions
- (c) the force that it exerts on the ground
- (d) its inert property

8. Which one of the following is an electric conductor?

- (a) A plastic sheet
- (b) Distilled water
- (c) Human body
- (d) A wooden thin sheet

9. The metallurgical process in which a metal is obtained in a fused state is called

- (a) smelting
- (b) roasting
- (c) calcinations
- (d) froth floatation

10. The most commonly used bleaching agent is

- (a) alcohol
- (b) carbon dioxide
- (c) chlorine
- (d) sodium chlorine

MATHEMATICS

1. The value of $\cos 0^\circ \cdot \cos 1^\circ \cdot \cos 2^\circ \cdot \cos 3^\circ \dots \cos 89^\circ \cos 90^\circ$ is

- (a) 1
- (b) -1
- (c) 0
- (d) $12\sqrt{}$

2. What is the minimum value of $\sin A$, $0 \leq A \leq 90^\circ$

- (a) -1
- (b) 0
- (c) 1
- (d) 12

3. The distance of the point $P(2, 3)$ from the x-axis is

- (a) 2
- (b) 3**
- (c) 1
- (d) 5

4. The points $(-5, 1)$, $(1, p)$ and $(4, -2)$ are collinear if the value of p is

- (a) 3
- (b) 2
- (c) 1
- (d) -1

5. The probability of getting exactly one head in tossing a pair of coins is

- (a) 0
- (b) 1
- (c) $1/3$
- (d) $1/2$

ENGLISH

1. Our country is spiritual country, theirs..... Religious.

- (a) is
- (b) are
- (c) also
- (d) have

2. Our sir teaches Mathematics..... English.

- (a) across
- (b) besides
- (c) beside
- (d) both

3. FOSTERING:

- (a) Safeguarding
- (b) Neglecting
- (c) Ignoring
- (d) Nurturing

4. MASSIVE

- (a) Lump sum
- (b) Strong
- (c) Little
- (d) Gaping
- (e) Huge

5. Rajeev failed in the examination because none of his answers were..... to the questions asked.

- (a) Allusive
- (b) revealing
- (c) Pertinent
- (d) referential

6. I said to him, "Why are you working so hard?"

- (a) I asked him why he was working so hard
- (b) I asked him why was he working so hard.
- (c) I asked him why had he been working so hard.
- (d) I asked him why he had been working so hard.

7. Find the correctly spelt word.

- (a) Adulation
- (b) Adlation
- (c) Aduletion
- (d) Addulation

8. To make clean breast of

- (a) To gain prominence
- (b) To praise oneself
- (c) To confess without of reserve
- (d) To destroy before it blooms

9. He has been seriously injured. There is Hope for his survival.

- (a) a little (b) a few
(c) little (d) few

10. I had to walk 5km yesterday as I had.....rupees for fare.

- (a) few (b) a few
(c) little (d) a little

11. I would not allow you to enter..... showing me a pass.

- (a) without (b) for
(c) about (d) before

12. If Bianca hadn't argued, Raghubhai..... the case

- (a) lost (b) had lost
(c) would lose (d) would have lost

13. Salman had married in time, his kids would have been adult till now.

- (a) If
(b) Unless
(c) When
(d) Hardly

14. she..... away yesterday?

- (a) Why, ran
(b) Did, run
(c) Where, running
(d) Was, run

15. we Without water?

- (a) Can, living
(b) Can, live
(c) Can, be
(d) Can be, lived

General Knowledge, IT

1. Who amongst the following had called Rabindranath Tagore as THE GREAT SENTINEL?

- (a) Abdul Kalam Azad
- (b) Mahatma Gandhi
- (c) Dr. Rajendra Prasad
- (d) Subhash Chandra Bose

2. Grand Central Terminal, Park Avenue, New York is the world's

- (a) highest railway station
- (b) longest railway station
- (c) largest railway station
- (d) None of the above

3. Garampani sanctuary is located at

- (a) Gangtok, Sikkim
- (b) Kohima, Nagaland
- (c) Diphu, Assam
- (d) Junagarh, Gujarat

4. When is the World Population Day observed?

- (a) 31 May
- (b) 4 October
- (c) 10 December
- (d) 11 July

5. 15 January is celebrated as the-

- (a) Republic Day
- (b) Ugadhi
- (c) Teacher's Day
- (d) Army Day

6. The famous Dilwara Temples are situated in

- (a) Uttar Pradesh
- (b) Rajasthan
- (c) Maharashtra
- (d) Madhya Pradesh

7. Golden Temple is situated in

- (a) New Delhi
- (b) Agra
- (c) Amritsar
- (d) Mumbai

8. The 'Char Minar' is in

- (a) Ahmedabad
- (b) Hyderabad
- (c) Delhi
- (d) Sikri

9. Badrinath is situated on the bank of river

- (a) Ganga
- (b) Yamuna
- (c) Alaknanda
- (d) Saraswathi

10. 'Kanchipuram' is in which of the following states?

- (a) Andhra Pradesh
- (b) Orissa
- (c) Kerala
- (d) Tamil Nadu

APTITUDE REASONING

1. SCD, TEF, UGH,, WKL

- (a) CMN
- (b) UJI
- (c) VIJ
- (d) IJT

2. Which the word which is different from the rest.

- (a) Chicken
- (b) Snake
- (c) Swan
- (d) Crocodile

3. Which the word which is different from the rest.

- (a) Kiwi
- (b) Eagle
- (c) Emu
- (d) Ostrich

4. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?

A _bbc_ aab_ cca_ bbcc

- (a) bacb
- (b) acba
- (c) caba
- (d) abba

5. Find the odd number/letters from the given alternatives.

- (a) Swimming
- (b) Sailing
- (c) Diving
- (d) Driving

6. Find the odd number/letters from the given alternatives.

- (a) Discernment
- (b) Perception
- (c) Penetration
- (d) Insinuation

7. What will come at the place of question mark?

1, 9, 25, 49, ?, 121.

- (a) 100
- (b) 91
- (c) 64
- (d) 81

8. A man walks 1 km to East and then he turns to South and walks 5 km. Again he turns to East and walks 2 km. After this he turns to North and walks 9km. Now, how far is he from his starting point?

(a) 3km

(b) 4km

(c) 5km

(d) 7km

9. If Rahim moves 20 M in East direction and then turns to his left and then moves 15 M and then he turns to his right and moves 25 M. After this he turns to his right and moves 15 M. Now, how far is he from starting point?

(a) 40 m

(b) 50m

(c) 25m

(d) 45m

10. In a certain code FIRE is coded as DGPC. What will be the last letter of the coded word for SHOT.

(a) Q

(b) R

(c) S

(d) P