

Reg. No. :

Code No. : 10800

Sub. Code : CPPS 11

U.G (CBCS) DEGREE EXAMINATION,
NOVEMBER 2022.

First Semester

Add on Major

PROFESSIONAL ENGLISH FOR PHYSICAL
SCIENCES — I

(For those who joined in July 2021 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Who is considered as the inventor of wireless radio?

- (a) Thomas Edison (b) Galileo
(c) Neils Bohr (d) Nicolas Tesla

20. (a) Discuss in a group about the uses and abuses of GPS.

Or

(b) Discuss the concepts of Big Bang theory.



2. What is the value of π ?
(a) 3.14159 (b) 3.14358
(c) 3.14258 (d) 3.14289
3. Which of the following light was emitted in earliest LED's?
(a) UV (b) Visible
(c) X-ray (d) Infrared
4. Earthquakes and Tsunami's are _____ Phenómena.
(a) Sub-terrain
(b) Heat wave
(c) Flood
(d) Volcanic eruption
5. The plural form of the word millennium is
(a) millenniums
(b) milleniad
(c) millennia
(d) millennium

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6. _____ is an important study skill.
(a) note making
(b) presentation
(c) writing letters
(d) creative
7. PPT means
(a) Power Point Tabulation
(b) Power Point Presentation
(c) Presentation in Power Point
(d) Power Point Transducer
8. A _____ is an ancient device used for arithmetic calculations.
(a) Abacus (b) Burette
(c) Accelerator (d) Calculator
9. _____ is a branch of science that deals with sounds.
(a) Barometer (b) Rhostat
(c) Acoustics (d) Optics

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10. _____ is a colourless, odourless and non-toxic gas.

- (a) neon (b) nitrogen
(c) helium (d) methane

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Match the following :

- | | |
|----------------------|--|
| (i) Crystal dynamics | (1) a frequency above the human ears audibility limit |
| (ii) Hypersonic | (2) the vibrational movement of atoms in the solid state |
| (iii) Ultrasonic | (3) Speed of more than 5 mach |
| (iv) Optics | (4) Concerned with the properties of sound |
| (v) Acoustics | (5) Studies the behaviour and properties of light |

Or

(b) Identify whether the following sentences are True or False

- (i) Vaseline is a moisturizing agent
(ii) The rod wax is used to heat cuts and burns
(iii) Vaseline is a non-medicinal plant
(iv) The name Vaseline is derived from water and olive oil.
(v) Vaseline is carcinogenic.

12. (a) Write the definitions of the following :

- (i) Sarometer
(ii) Computer program
(iii) Flowchart
(iv) Gobar gas plant
(v) Microphone

Or



(b) Write the definition of the following :

- (i) Radiator
- (ii) Rheostat
- (iii) Robot
- (iv) Scientist
- (v) Sensor.

13. (a) Explain in details of LED.

Or

(b) Complete the paragraph with appropriate words given in the box.

Electronics, handhelds, consumption
light-emitting, advantage

The LED display is one of the main screen displays that are being, commercially used. The biggest _____ of the LED display is its efficient _____ and low energy _____ chargeable devices such as mobile phones and tablets. LED's have numerous advantages over other _____ devices that

can be used alternatively. LED display is different from the vacuum fluorescent display used in some consumer _____ such as car stereo's, video cassette, recorders etc.

14. (a) Analyse the concepts of artificial intelligence.

Or

(b) Write a sentence describing the given words.

- (i) Potential
- (ii) Accomplishes
- (iii) Substitute
- (iv) Efficient
- (v) Micro-algae.

15. (a) Match the two columns

- (i) The black part of (1) it will become the black hole is
- (ii) If an object (2) the event horizon breaches the event horizon
- (iii) In the middle of the (3) in a much smaller pace black hole
- (iv) Spaghettified (4) is a singularity
- (v) Black hole packed with all the heavy elements (5) Stretched and pulled apart by the black hole's gravitational forces

Or



- (b) Select suitable words from the choices given in the bracket.

(Prism, flatter, radiation, light, interactions)

Spectroscopy is the study of the _____ between _____ and electromagnetic _____. Historically, spectroscopy originated through the study of visible _____ dispersed according to the wavelength by a _____.

PART C — ($5 \times 8 = 40$ marks)

Answer ALL questions choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) (i) Write a short note on Raman effects.
(ii) Define : HCQ. Discuss its uses.

Or

- (b) Describe the detailed informations Marie Curie's contribution to the field of science.

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17. (a) Classify and give the uses of computer graphics.

Or

- (b) Explain the detailed concepts of LED's.

18. (a) Discuss the full detailed studies of Sir.C.V. Raman in Raman effect.

Or

- (b) Discuss the terms :
(i) Biomass and
(ii) Biofuels.

19. (a) Write a summary of black holes.

Or

- (b) Write a detailed informations of Kalpana Chawla in the field of space shuttle.

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