

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Explain types of capacitors.
Or
(b) Explain soldering and desoldering techniques.
17. (a) What is digital multimeter? Write the uses of digital multimeter.
Or
(b) Explain LCD Liquid Crystal Display.
18. (a) Explain capacitive transducer.
Or
(b) Explain RTD measurement of temperature.
19. (a) Explain DTH system.
Or
(b) Explain cellular telephone system.
20. (a) Explain tele and wide angle lens.
Or
(b) Explain digital formats.

Reg. No. :

Code No. : 41379 E Sub. Code : SSPH 4 A

B.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2019.

Fourth Semester

Physics

**Skill Based Subject — MAINTENANCE AND
ELECTRONIC APPLIANCES**

(For those who joined in July 2017 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. More resistors to a circuit the
(a) Lower the resistance
(b) Higher the resistance
(c) Same the resistance
(d) Resistance may vary
2. Electric energy / time is equal to
(a) Potential difference
(b) Flow of light
(c) Flow of heat
(d) Electric power



3. LCD operate from a voltage range from
 - (a) 3 – 15 V
 - (b) 10 – 15 V
 - (c) 10 V
 - (d) 5 V
4. A CRO can be used to measure
 - (a) AC voltage only
 - (b) DC voltage only
 - (c) Frequency
 - (d) Any of the above
5. The transducers used for the measurement is
 - (a) RTD
 - (b) Thermistor
 - (c) Ultrasonic
 - (d) All of these
6. LVDT is
 - (a) Inductive transducer
 - (b) Non-inductive transducer
 - (c) Capacitive transducer
 - (d) Resistive transducer
7. What is the function of antenna in receiving mode?
 - (a) Radiator
 - (b) Converter
 - (c) Sensor
 - (d) Inverter
8. The reference noise level for Telephony
 - (a) 1 mv
 - (b) OdBm
 - (c) 1 pW
 - (d) Od
9. In a photography enlarger object is placed
 - (a) between F & 2F
 - (b) beyond 2F
 - (c) at F
 - (d) less than F
10. The total amount of light that is captured
 - (a) Aperture
 - (b) Shutter speed
 - (c) Exposure
 - (d) Focus

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Describe Wattage rating in brief.
Or
(b) Write a note on printed circuit board.
12. (a) Write the uses of analog multimeter.
Or
(b) Describe AF oscillator with a diagram.
13. (a) Write the basic requirements of transducer.
Or
(b) Write a note on photoresistor.
14. (a) Write the characteristics of resonance Antenna.
Or
(b) Discuss the principle of operation of mobile phone.
15. (a) Outline the parts of camera.
Or
(b) Describe the resolution of a camera.

