

CLASS: M.Sc. PHYSICS

15A/ 329

St. JOSEPH'S COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI – 620 002

SEMESTER EXAMINATIONS – APRIL 2015

TIME: 3 Hrs.

MAXIMUM MARKS: 100

SEM	SET	PAPER CODE	TITLE OF THE PAPER
IV	2013	12PPH4203B	DIGITAL PHOTOGRAPHY

SECTION – A

Answer all the questions:

20 x 1 = 20

Choose the correct answer:

- Which of the following lens is used to take a picture from a text book
 - Wide angle
 - Telephoto
 - Zoom
 - Macro
- For which of the following ISO number the camera becomes more sensitive to light
 - 100
 - 200
 - 400
 - 800
- Alt + drag with mouse left click is
 - To delete photo
 - To transfer photo
 - For multiple photos
 - Open photo
- Which of the following technique can be used to darken a small section of an image
 - Cloring
 - Healing
 - Sharpening
 - Burning
- _____ chemical is used in the picture tube plumb icon
 - Selenium
 - Lead monoxide
 - Antimony
 - Silicon

Fill in the blanks:

6. DSLR stands for _____.
7. A wide aperture gives a _____ depth of field.
8. _____ tool magnifies an area of the image we are working on.
9. Separate images can be stitched together to create a seamless _____ image.
10. Image orthicon picture tube works on the principle of _____.

State True or False:

11. One gigabyte is the equivalent of 1024 KB.
12. A fast shutter speed and large aperture can freeze motion.
13. Clone tool allows the copying of pixels from one area to be pasted over another area.
14. A basic set of four colours cyan, magenta, yellow and black often abbreviated as CMYB.
15. The two principal controls in a video camera are the iris control and the white balance.

Answer in one or two sentences:

16. Expand HDMI.
17. What is meant by white balance?
18. Give the most common problem with people picture.
19. What is meant by red-eye in digital photography?
20. State the principle of video picture tube.

SECTION – B

Answer all the questions:

5 x 6 = 30

21. a. Write a note on 'Fixed Lenses' and Zoom Lenses.

OR

b. Explain briefly the features of a digital camera.

22. a. What is meant by composition in photography? Explain.

OR

b. How will you take photos of sports and actions? Explain.

23. a. Give the procedure to crop the photos using Photoshop.

OR

b. Write the procedure to brighten and darken the photos using Photoshop.

24. a. How will you adjust colours in Photoshop? Explain.

OR

b. How will you make panoramas using Photoshop? Explain.

25. a. Explain the following video picture tubes:

i) Vidicon ii) Plumbicon.

OR

b. List any four precautions for the use of a Video Camera.

SECTION – C

Answer any FOUR questions:

4 x 12.5 = 50

26. Explain the different types of Digital Camera.

27. Explain in detail the following:

i) Depth of field ii) Creative flash iii) Portraits and people.

28. Explain any ten tools available in Photoshop with its use.
29. Discuss the functions of cloning, healing, Dodge and burn of Photoshop with example.
30. With a neat diagram, explain the different parts of a Video Camera.
