

BACHELOR OF ENGINEERING IN CIVIL ENGINEERING EXAMINATION, 2018

(1st Year, 1st Semester)

HUMANITIES - A

Time : Three hours

Full Marks : 100

(50 marks for each part)

Use Separate Answer scripts for each part

PART - I

(ENGLISH)

1. Answer any one of the following questions: (15 marks)
 - a. Describe how Arthur Conan Doyle portrays Sherlock Holmes as a person possessing keen observing and reasoning skills in 'The Adventure of the Blue Carbuncle'.
 - b. Who in your opinion is the better friend in O' Henry's 'After Twenty Years' – Bob or Jimmy?
 - c. Discuss the way in which Mulk Raj Anand portrays village life in 'The Barbers' Trade Union'.

2. Answer any one of the following questions: (15 marks)
 - a. You are part of a national NGO working on child immunization programmes in rural Bengal. Write a report addressed to the Director stating your experience and the steps that can be taken to alleviate the problems that you have witnessed.
 - b. A reputed English medium school in Mumbai requires Physics teachers for the senior section. Applicants must be post-graduates in Physics and possess a B.Ed degree as well. Those who have taught in similar positions before will be given preference. Apply with testimonials to The Principal, Akshar International, 32, Goregaon (West), Mumbai- 104.
Respond to this advertisement with a CV and job application letter.

[Turn over

3. Make sentences with any five of the following words: (5x2=10)
 Staunchest, cantankerous, akimbo, tottering, twirling, scintillating, vicinity, absurdity, impressively, drizzle.

4. Read the following passage carefully and answer the questions that follow: (10 marks)

For many years, most physicists supported one of two cosmological theories: the steady-state universe and the Big Bang. The theory of the steady-state universe states that the universe has always existed exactly as we observe it at present, whereas the Big Bang theory postulates that the universe was conceived from a singularity in space-time that has expanded into current universe. The validity of either theory was not tested until 1929, when Edwin Hubble famously discovered what is now known as Hubble's Law. Hubble's experiment is now a famous benchmark in modern physics. Hubble, using the Mount Wilson Observatory, observed a class of stars known as Cepheid variables, luminous stars that blink and flicker with a rate that depends on their distance from the observer. Using this relation and years of observing, Hubble calculated the distance to many of these variable stars. Milton Humason, a fellow astronomer, helped Hubble to calculate the stars' relative velocities to Earth. When Hubble combined the two data sets he found an interesting relationship: all the stars appeared to be moving away from us! In fact, the speed at which they were moving increased with an increasing distance from Earth. Hubble realized, from this small set of data, that the earth was a part of the expanding universe. As the universe expands outward in all directions, any observer from a fixed vantage point will look out and see everything running away from them. The further away any two points are, the more the expansion affects them, and the faster they appear to be moving away from each other. Hubble's result was the first experimental proof that we do not live in a steady-state universe, but rather a dynamic and expanding one.

- a. What are the two main cosmological theories and what do they state? (3)
 - b. How did Edwin Hubble conduct his experiment? (3)
 - c. What did he observe and what inference was he able to draw through this experiment? (3)
 - d. Give the meanings of: luminous, dynamic (1)
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B.E. CIVIL ENGINEERING

FIRST YEAR

FIRST SEMESTER EXAM 2018

HUMANITIES-A

SOCIOLOGY

PART - II

Full marks-50

Attempt both the sections.

SECTION-A

1. Write short notes on any four of the followings

5X4=20

- a) Sociology and history
- b) Symbolic interactionism
- c) Micro analysis
- d) Organisation
- e) Concept of development
- f) Managers
- g) Technology assessment
- h) Basic sociology

SECTION-B

Attempt any two of the followings -

2. Discuss the importance of ICTs in medical facilities. 15
3. How is sociology related to other social sciences? 15
4. Discuss sociology's three leading theoretical perspective. 15
5. What is technology transfer? Examine the different modes of technology transfer? 15